

<110> Fischer et al.

<120> 123 Human Secreted Proteins

<130> PZ010P2

<150> 60/239,899

<151> 2000-10-13

<150> 09/227,357

<151> 1999-01-08

<150> PCT/US98/13684

<151> 1998-07-07

<150> 60/051,926

<151> 1997-07-08

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<223> Xaa equals any of the twenty naturally occurring L-amino acids

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  1                      5

<210> 3
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<213> Artificial Sequence

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<221> Primer_Bind
<223> Synthetic sequence with 4 tandem copies of the GAS binding site
      found in the IRF1 promoter (Rothman et al., Immunity 1:457-468
      (1994)), 18 nucleotides complementary to the SV40 early promoter,
      and a Xho I restriction site.

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cccgaaatat ctgccatctc aattag                                           86

<210> 4
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic sequence complementary to the SV40 promoter; includes a
      Hind III restriction site.

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<210> 5
<211> 271
<212> DNA
<213> Artificial Sequence

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ccatctcaat tag 73

<210> 10  
<211> 256  
<212> DNA  
<213> Artificial Sequence

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<221> Protein\_Bind  
<223> Synthetic promoter for use in biological assays; includes NF-KB binding sites.

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cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180  
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cttttgcaaa aagctt 256

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&lt;211&gt; 801

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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aaaaaaaaaa	aaaaaactcg	a				801

&lt;210&gt; 16

&lt;211&gt; 1198

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 16

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&lt;211&gt; 613

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;





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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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&lt;210&gt; 23

&lt;211&gt; 1838

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;222&gt; (1076)..(1076)

&lt;223&gt; n equals a,t,g, or c

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&lt;211&gt; 697

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;222&gt; (19)..(19)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (50)..(50)

&lt;223&gt; n equals a,t,g, or c



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&lt;210&gt; 31

&lt;211&gt; 1560

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;222&gt; (461)..(461)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

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&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

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&lt;222&gt; (499)..(499)

&lt;223&gt; n equals a,t,g, or c

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&lt;222&gt; (595)..(595)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

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&lt;222&gt; (621)..(622)

&lt;223&gt; n equals a,t,g, or c

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&lt;210&gt; 32

&lt;211&gt; 1462

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (7)..(7)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 32

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gcgagctcag	ggggccatca	tgggggtccc	ccagaggcaa	cctggcctat	cagggctgct	240
cctcctcgtg	tgggcactgg	cctggccctt	gccttgtagt	agcttgtagc	tgatccccct	300
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aaaaaaaaaaa	aaaagggcgg	cc				1462

&lt;210&gt; 33

&lt;211&gt; 1272

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1264)..(1264)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 33

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<210> 36

<211> 914

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (909)..(909)

<223> n equals a,t,g, or c

<400> 36

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gcctgagttt	aacatccgga	aaccagaatc	cactgttcct	tccaaagccg	tggtgattcg	120
agagtcaaaa	tacagagatg	atatggtaaa	agatgactat	gaggacgatt	cccatgtttt	180
ccggaaaccc	gccaatgaca	tcacatccca	gctggagatt	aatttttggt	acctccctcg	240
tcctgggcgt	ggagccagag	gaggcaccgc	gggaggcccg	ggaaggatca	ggagggcaga	300
gaactatgga	cccagagcag	aagtgggtgat	gcaagatggt	gcccccaacc	cagatgaccc	360
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gcacacctgt	ggggagactt	ttccagctgg	gccaaggagg	tcagactcta	agaacaatag	480
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tagactcctc	cgcggaagca	tggagggaaa	ggaggttgta	aaatagactc	catggagact	720
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aattgcactt	acaaaaaaaa	aaaaaaaaaa	aaaaactcga	ggggggggccc	gtacccaatc	900
gccttgtgnt	gcat					914

<210> 37  
 <211> 1555  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1248)..(1248)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1389)..(1389)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1391)..(1391)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1393)..(1393)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1396)..(1396)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1551)..(1551)  
 <223> n equals a,t,g, or c

<400> 37	
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gctcagcctc	tgatggagc
tgaagaggga	aagcatggac
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tggttaggaa	atggattatg
acactctgat	atgaggtttg
caggagtacc	agggagtgga
aattattttg	aagggtagaa
cacaaaaaaaa	aatctctctc
ttataaactg	ttcattaatt
tcgttcaatt	tcaaatacaa
ctctttttaca	aattgtctgt
ttcatatgtg	ctctaataaa
tctgtcacac	tgattgaaaa
gcttttaaaaa	gttaatatgg
atgttataaa	ttctttgtgg
taattcaacc	attcccttat
ttaacgtctt	tgcttgctat
ttctctgtat	ttagaatatt
gaggaacatt	tttaaatgcat
gagcgcgagg	gagcgcgagg
aaggctttct	aaagtcaacc
agaagcccg	cggcaaaaaat
taatgaagag	aggaccagag
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cagagggaag	gtgaaatgca
aattgctttg	cagcataaagc
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tgtgtactta	actatgtata
tttttcacat	ttgttatcct
ttgtctctct	ttaggcctta
ttctgtatat	ttaacattac
tagtttggtg	ttttgtcttt
accatcccaa	catcacataa
taactgtttt	attatgagga
ggtttggttt	ggaccataat
taggtttttg	ggtttggttt
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ggattctcag	aagaattctc
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	tgccctgctg

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&lt;210&gt; 38

&lt;211&gt; 1767

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (765)..(765)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1130)..(1130)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1545)..(1545)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1658)..(1658)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1744)..(1744)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1748)..(1748)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 38

ccgggtcgac	ccacgcgtcc	gattgaacgg	tttggggcat	ccttcctagg	aaaagaatgt	60
cagttaaggt	ggggtctctt	ctgggttttg	tgtattttac	cctggggcca	gttgttgacg	120
aactggaggt	gacctgcct	tctcattcct	aacatttttc	tctactacca	cccggaattt	180
gaggcagacc	cccaactcgt	catggctcca	gctgaagttt	gaaatataac	gtcccggact	240
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tgtcgtcagt	tgatgtctct	tgacctgaac	tgagtatgcc	tgtggaaggt	cctcttagcc	540
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<221> misc\_feature  
 <222> (410)..(410)  
 <223> n equals a,t,g, or c

<400> 43  
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 ggggtgaagct ggagatattt cggatgataa tctacctcac tttccctgtg gctatgttct 120  
 ggggtttccaa tcaggccgag tggtttgagg acgatgtcat acagcgcaag agggagctgt 180  
 ggccacctga gaagcttcaa gagatagagg aattcaaaga gaggttacgg aagcggcggg 240  
 aggagaagct ccttcgcgac gcccagcaga actcctgagg cctccaagtg ggagtcctag 300  
 cccctcccct gatgaaatat acatatactc agttccttgt tanaaaaaaaa aaaaaaaaaa 360  
 aaaaaaaaaa aaaaaaaaaa aaanaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 413

<210> 44  
 <211> 735  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (376)..(376)  
 <223> n equals a,t,g, or c

<400> 44  
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 aaaataactt taaactgatt taatatattca tatttacatt atatgaaaat caattacatt 120  
 ataaaaggaa tccctaattgc agaaacaaag atgcaacttt caaaattctt attattccta 180  
 tttgtatata cacgagagaa cccaaccagt gcctgtgttt ggggggaaaa gtcaacagtg 240  
 tagttctaaa ctttatccca aacagaaaaa gtggktaatg atgtcacttt ccttgctggk 300  
 catcattagg cttaaattaa atgctgaagc tgtcatcaaa gagtttacac taaaatcttc 360  
 agggctttta ataaanggtt aagtccagct tccaaacaca attttccaca ttagcagctc 420  
 caatcttctt aaataaagct ctgttttctt atatttttat gactgctgag accccacagg 480  
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 aaaaaaaaaa ctcga 735

<210> 45  
 <211> 775  
 <212> DNA  
 <213> Homo sapiens

<400> 45  
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 atgctatcaa aagtaattaa tttcaagtggt aaataagacc aaacaaaaac gatcagatgc 180  
 gacattgtct cataaacatg atagactatt aaatcacttt gtgttttttg gaaacagcta 240  
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 ttgaacccag gaggcagagg ttgcagtgag ccgagatcac accattgcac tccagcctgg 720  
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<210> 46  
 <211> 506  
 <212> DNA

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atctctgttc	tctcaagcag	aactcccaac	cagatccatt	cttgaccagt	gaccggctcg	480
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ttaatattag acgtctaagg tataatctgta aattagaatc cgactatcac tctgttcatt 1380
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<210> 48
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<212> DNA
<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<222> (1144)..(1144)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1171)..(1171)
<223> n equals a,t,g, or c

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<220>
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<222> (1286)..(1286)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1350)..(1350)
<223> n equals a,t,g, or c

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ggacagaggg aagagaaggg ccagccagcg gcagtggagt cggcaggctg gctgcccact 180
cgctttctct cctcacaaga ctgcgttccc ctgtcttcga ggatctcgaa cggactatag 240
tctggactcg ctgggctgga ggaaacttgg ccgctggcca cccggaggag actgaaaatc 300
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09973228-10104



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<211> 1220

<212> DNA

<213> Homo sapiens

<220>

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<222> (1197)..(1197)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1208)..(1209)

<223> n equals a,t,g, or c

<400> 49

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tgaatagcat	ggtctgggaa	cattccttct	ttattgtgtt	tatttgaaca	tgatatgagt	180
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tgcaatcttg	gctcaactgc	gcctccacct	ccccgggtcc	agcgattctc	ctgcctcagc	360
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ctatgtagtt	catattattg	ttctgtctga	ctctcagaaa	ttacttcttc	acgccagtgt	720
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ccatttctgt	tgccaggac	acagattttg	agagctgtgt	gtatatatat	ataatcatgt	900
ttgtattttt	ttcctgaaag	ttatcaattg	cttttgttta	aaacagtttg	tttttagagg	960
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<210> 50

<211> 1048

<212> DNA

<213> Homo sapiens

<220>  
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 <222> (13)..(13)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (16)..(17)  
 <223> n equals a,t,g, or c

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 tctcttcctt tctcatgttt tggctttggg gctaggcatc tatattggaa agcgactgag 420  
 cacacccctc gccagcacct actgagggaa aggaaaagcc cctggaaatg cgtgtgacct 480  
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 aacctaccac cctgttttta catatccaat tccagtaact ctcaaattca atattttatt 600  
 caaactctgt tgaggcattt tactaacctt ataccctttt tggcctgaag acatttttaga 660  
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 caccagcaga ttataatttt gtcagcaatg ctattatctc taattagtgc caccagacta 780  
 gacctgtatc attcatggta taaattttac tcttgcaaca taactaccat ctctctctta 840  
 aaacgagatc aggttagcaa atgatgtaaa agaagcttta ttgtctagtgt gttttttttc 900  
 ccccaagaca aaggcaagtt tccctaagtt tgagttgata gttattaaaa agaaaacaaa 960  
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 aaccaaaaaa aaaaaaaaaa aaggggggt 1048

<210> 51  
 <211> 968  
 <212> DNA  
 <213> Homo sapiens

<400> 51  
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 gtggaatcat atgcattctg gcgaccatca ctacggactc tgacctttga agatatccct 180  
 ggaattccca agcaaggcaa tgcaagttcc tccaccttgc tccaagtact gggaatggcg 240  
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 gctcaggcct caccctcaac cgatacagca catctttggc agagacctac aacaggctca 420  
 ccaaccaggc tggtagagcc tttgccccgc ccaggactcc ctctatgtg ggctgagca 480  
 gcagcacctc cgtgaacatg tccatgggtg gcactgatgg ggacacctc agctgcccac 540  
 agaccagctt atccatgcag atttcgggaa tgtcccccca gctccagtat atcatgcat 600  
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<210> 52  
 <211> 586  
 <212> DNA  
 <213> Homo sapiens

<400> 52



<220>  
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<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1113)..(1113)  
 <223> n equals a,t,g, or c

<400> 55  
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 aggtaacatt agcttctata atacgcacac tcccaaactc cagtatttca acatgagttt 180  
 ctctcttgct catgtaaaga ctggtcaggg acccagggtg acagaggctc ttcagtacat 240  
 agcttccaag attgctgtgg gtgtgacatc cagccagaaa tctggtgaag agagagcaat 300  
 grttacacag gaacttttaa tggaccaggc ctgggacagc gtatgtcact tccaccaaca 360  
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<210> 56  
 <211> 1241  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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<400> 56

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tacctactcc	attgtgtgga	ccaaaggaga	tggttaatgt	gaaagccctt	tgtgaacctg	480
aagttagcaa	ctgctggatg	aatgtcatta	cgggacacagg	ctctgtgtca	tctcctctcc	540
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cactgatgta	accaacctca	cagactagtt	gtttattata	ttaatagttt	gagcatataa	900
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tgtattctct	tcacctggga	ccactgattt	ttaagctgcc	acattggctg	gagaacaggc	1020
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 <211> 908  
 <212> DNA  
 <213> Homo sapiens

<400> 57

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ccttgttacc	tagaactctt	atgtttcagc	ctaatttctt	catctgcaaa	gacctaatag	180
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taatataaaa	ttttgacttt	tatatattac	ccaatattgt	taaaaggaga	attctatgta	300
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caaaaaactta	gaaggtaaac	aaaaagtaat	ctcataaaac	atagaagggg	aatacacctt	420
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aaactcga						908

<210> 58  
 <211> 849  
 <212> DNA  
 <213> Homo sapiens

<400> 58  
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 gctttttctg agtcattatc cacatgccga aacattttatt gaatagccct ttccttattg 420  
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 agtcagaaga acattctttt gattatkgta gctttacatw aataatacat ttkggccggg 540  
 tgcgggtggct cacgtatgta atcctagcat tttgggagac tgaggcaggc ggaacacctg 600  
 aggtcagggg ttcaagacca gactggccaa catggcaaaa ccccgctctc aaaaaaaaaa 660  
 aaaaaaaaaa aattagctgg gcatggtggt gcctgcctga aatcccagct actttgggag 720  
 gctgaggcag gagaacctct tgagcctggg aggtagaggc tgcaagtgag cgagcttgca 780  
 ccactgcact ccaacttggg taacagagtg agactccatc tcaaaaaaaaaa 840  
 aaaactcga 849

<210> 59  
 <211> 678  
 <212> DNA  
 <213> Homo sapiens

<400> 59  
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 aagccattct cttacagcat ctagtctgt gtaacgagct accttaaaat gtaaaggctt 240  
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 ccaagtggca ttggctctag ttactacctg atattccagg gtggtagctg gagtgggtctc 360  
 aagggtccaa gctgacctca cttacaagct ggggtgcctt gcagggacag ttaggaggct 420  
 gtgtgtagca gagcctcact cggctctttg attctccagg cctcttcagt ggtttctttg 480  
 gcacttctta aatgatgtca gggttccagg agttaatgtt ccaagagaca ggaagtggat 540  
 gctgcccattc tctttttttt tgtttgtttg tttgtttgtt tttttgagat ggagtcttac 600  
 tctgtcacca ctgcactcca gcctgggcaa cagagcgaga ctctgtctca aaaaaaaaaa 660  
 aaaaaaaaaa aaactcga 678

<210> 60  
 <211> 857  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (493)..(493)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (562)..(562)  
 <223> n equals a,t,g, or c

<400> 60  
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 tactggtata ggtactctaa aatgtctttt gaattaagtc agagttagag gggtgtgtct 120  
 ctaaaccgca tcttactggt attatgctat cagcctgtat tgagagactt tataggtaaa 180

gtccaatttta	ggctgtttgg	tattatctat	taaaattaga	atgttcatgc	tctgtaacct	240
gctactttcca	cttctagaat	ttatctttgg	aagcacatat	ctgtccacag	acctatattt	300
acacacatgt	atgaagaatg	tkttccttca	cattcattca	ttttaacaaa	tgttttgatg	360
tgtagggcct	aagctgattt	gaatgcagct	gaaatgcaca	tatctgggtg	agtcmtggga	420
actgatttgc	atgtgtcttt	ctcttttatg	gcttgaagag	gagagaaatt	tgtgcttagc	480
acattgaagg	gcntacgaga	tacaaggagt	ctgtccttag	ctctgccctt	tggactgttg	540
tctgaaggct	aaagaagaga	gnacaaagaa	agcttgcatt	gggaggctga	gggtgggagga	600
tcacttgagc	ttaggagttt	gagaccagcc	tgggcaacat	agggagactg	cacctctata	660
agaaatttta	aaaattagcc	gggttggcag	cgtgctcttg	tgggtcccagc	cgcttgaaaa	720
gctgaggtgg	gagaatcgcg	tgagcctggg	aggtcgaggc	tgcaagtgcac	cgtagattatg	780
ccactgcact	ccagcttggc	aacattgact	gtctcaaaaa	gattatatat	ctctaaaaaa	840
aaaaaaaaaa	aactcga					857

&lt;210&gt; 61

&lt;211&gt; 767

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 61

catgaaaaca	cattctctta	tagtttttta	attcatcatc	caagagttcc	tgtcttttga	60
tgatgagaca	tacctggtag	actccaaaac	agagagcaga	cgcttagtat	ctttgttctg	120
gggtgtgcat	taagagtaca	ttgacctgtc	tgtctccagt	cttgactctt	ttggaagaga	180
gatgctagta	ctgatgacaa	cctgcattct	ggctgcgggtg	tgygtccaca	ctgcacagtg	240
tgcaccagac	tctcgtatgg	acaatgactg	tccctcacat	caggcgacaga	tccatttttag	300
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tgaaggaaaa	aggacatcag	tgcttggatc	ttagctctta	taagcctcac	gtgcaacaat	660
aaacccgagt	tcaagaatca	gattcttaga	tagattgggt	tggtagcaaa	tgacaaaaaa	720
ccaacgtaaa	tatgcttcgg	caaaaaaaaa	aaaaaaaaaag	ggcggcc		767

&lt;210&gt; 62

&lt;211&gt; 728

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 62

aaatgatttta	gtgacctata	caagtagcct	gcagtaccgg	atccgaattc	ccggctcgacc	60
cacgcgtccg	gtgaaaacag	cagagtgtct	ctccatacca	ctgggatctt	gtccagtaaa	120
catccagaga	gtgaggttag	gaaataaaaa	gtatataaat	attagatgcc	tagaaatgca	180
agtcacttta	aagattttat	gtgaaataga	aaaaaaaaag	aggagaggga	ctcattgtct	240
tgtaatgggt	ccttcccaga	gagaggtgac	tgtccagtgg	caccggggccc	ttttcctcct	300
tcccctttta	ctcttatcaa	ctaggacaga	aactaagaat	tttggttca	agtggtctaaa	360
agactgatgg	gggaaaaaag	aaaatagaaa	aaaataacag	agagactgac	gctctaggga	420
gttacaagtc	caagaaaaaa	gacagaaact	tttaagtatt	gagccaaaac	caggtctagc	480
aamcataatg	ctggccctag	attattttatt	aatttatgaa	gaaacttcta	gatatggggg	540
tgacaaaagg	aaattaaatc	cattatatat	gcataatatt	taatgtaaat	atataataga	600
taaattatgt	atacataata	tataaccaa	ttgaaacagt	tttacaattt	ggtttgactg	660
gaaattcaaa	atccatatat	taatttttgt	agtaaaagtt	tatgtaaaaa	aaaaaaaaaa	720
gggcggcc						728

&lt;210&gt; 63

&lt;211&gt; 944

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (932)..(932)







<220>  
 <221> misc\_feature  
 <222> (1259)..(1259)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1261)..(1261)  
 <223> n equals a,t,g, or c

<400> 67  
 ggcaccagaa aaaaaaaaaa taatccaaag aattttaaatt gtaatcatgt ttcattgtatt 60  
 tgttttatta cttactttta tagcacttag tcccagtggt attagactgc tatttgggtt 120  
 catacaaaaa ggattaaatt taaattcatt catgttttaga cttgagttat tacattttta 180  
 aaactatcat cttgccttta atgtttgtgg tcctacacaa actattagta catttcagta 240  
 tcctcttacc cctttgtttt taagtttttg attgctaaag caagactttt ttcttctaga 300  
 atttaagtca accaagtgtt atctatgttg taaaaatgga taatagtaga ttttaggtga 360  
 taaaacaact tgtagtaag acatttccta gcttaaaaaa aaaaatcaaa aattccatga 420  
 tagaaatgca gacctgtgag ggaaactcct gaaaagcata agaagcatcc cagagagcca 480  
 tgggttttct agaccagaga atttagaggg agattgtgga actgaggctt aggtgggtcag 540  
 atcgtttccc ttatcactgt aatattttct gggggaaaaa tgctttctga gttgtttaaa 600  
 caagcatcct tacatttttt nttaattaa aacagcctgt ntagggttg ggattcccta 660  
 atactacagt agcagtatat gaatatgatt ttgtgattgt gtttttttaa agataagtaa 720  
 tnngangaan tggtcttttg cagtcagaaa aactcacaa aaagacaaaa aaagttccac 780  
 agtattatat ttcattgtcag ttcaggccta aaatccttg caaataagat gtttataggc 840  
 tggtcacaat taacaatgtt attattggca gcacttcttg gatggatacc ttttgggacc 900  
 tttcattaga aagagggaaa gaatggggtg gttttgtatg ggctcctgtt tggggtaaaa 960  
 atagcagagt cagttgctga ggaccaatga cctttccta taaacattta gtttcatacc 1020  
 catattaggt cttgtcttga ggacccttta tatgtgcttg tttactagt gccttccagc 1080  
 catagcattc ttaccttttt ttocctattct aagaattaaa aaaaaaaatt atagagccag 1140  
 caagggagga ggcaggaaac agaaatcgaa tttcatcatt ccagtatagt tgtccctttt 1200  
 tttgtatttc tgacttggtt ttataattat atttacttac taaaaaaaaa aaaaagggna 1260  
 na 1262

<210> 68  
 <211> 921  
 <212> DNA  
 <213> Homo sapiens

<400> 68  
 ccacgcgtcc gaccatgcca aattttcttg ggttccctaa atgcgccatg tttgaagata 60  
 ctctgaggac attgtatata cttttgttct acctgagata catttgctta ctttctccac 120  
 atattgccct catgacactt atccttattg atggatttct tcaatgctac tattgtgcct 180  
 tacatgtgcc ttgtattata gcatttttat agcatttctc acccaattgt ggctatttgt 240  
 ttacatgtct gtctccttgg tggaaactgt aactctgtca taacagatgc cattttatgt 300  
 cagttagact tctttgggtg ccagtaagag aagctgactc taatctaaac caaaaggaat 360  
 tcattggacg gatgtgggtt ggctcacaaa atcaaaggga caactgcgga ccgatcttgg 420  
 aatgatgctc tgacaccaga acagctctgt gaattcagat aggggtagtg aattgaccat 480  
 ttcatcaaat gctgcagcaa gctaggttgt ttcccccagg gaaattgagg agtggtacaa 540  
 gaagaccatt aggggaacgg ttatctgggt gctgataata acaaatttcc atggcagctc 600  
 ctttgctctc tggttgaaga ggtactccac catgggcctt gagcatctct acacatcctt 660  
 gctaagcgtg tcaaatttca agtcctaact gtcctctgtc tctggaggag gagacaggtt 720  
 tggttactgt ttgttgtaaa aattactgag cccttcacca tgggtgcctc agctgtatgc 780  
 aaagccctt gtattgctgg gggacagagc aactggtact gccatgctgg tgcctctggc 840  
 gtttgctgtt ggcaataaac tattctgttt tgggtcaaaa aaaaaaaaaa aaaaaaaaaa 900  
 aaaaaaaaaa aaaaaaaaaa a 921

<210> 69  
 <211> 478  
 <212> DNA  
 <213> Homo sapiens

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<400> 69
tttttttagca tttcacgcta tttattcccc aaaaccttct gccatagaag acagccacca      60
tacagattgg aaaatgtgga cgaggagaaa aggggtgtat ggtaagcaaa ataaattgta      120
ttttccatcc ttggggagga taaaggaact ctttgactg ctataatgaa cagcccccaa      180
atgccagtgg ttaattcag tggagtccag acctcattcc tatatcattg cagtgtggat      240
gctcctggat gaaggctctt gtaggtaact ctctccagt cggtgattca gggacccagc      300
ctccttctgc cttgcggctt tgccttttaa aggtcctcag ggtgctctcc atgtatcttg      360
ccaatgggga acgagtgtgg aggactcaca agcgggtcyc acatcacgtc ctccggggct      420
aatacacatc ctttctcccc acactctgtt ggtcagaagt cactgcttgg cgccctgc      478

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<210> 70
<211> 719
<212> DNA
<213> Homo sapiens

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<400> 70
gaattcggca cgaggagaaa ggagggaagg cacagcgctg ggcagagatg ccagaaaacc      60
tagttctaata cttggccttg ctgctgtcag tgtgtggcct taagcaagtc atttttctct      120
cggcctcaat ttactctaaa atgtgtaccc tcatagctac taagaaagtt gttgcaaaaa      180
ctagaaatga tgcttactgg tatttaatta gtctcaaaca catagtaggc ttttaacaat      240
tagtggctgt ctttttcatt attattaggc gcttcaattt ttacatgttg gcaatctcaa      300
acataccatt ttcttttttt taaaaccctt ttttttkttt ttttttttga gacagaatct      360
ccagcctggg agacagagca agaccgtgtc tcagaaaaaa gtggggccgg gtgcagtggc      420
tcatgcctgt aatcccagca ctttgggagg ccaggggcggg cggatcacao gatcaggaga      480
tcgagaccat cctggctaata gcggtgaaaa catgtctcta ctaaaaatac aaaaaattgg      540
ctgggcttgg tgggtgggcgc ctgtagtccc agctactcag gaggctgagg caggagaatg      600
gcgtgagccc gggaggcgga gcttgcagtg agcagaaatt gcgccactgc actccagcct      660
gggcaacaga gcgagactct gtctccaaaa aaaaaaaaaa aaaaaaaaaa aaaactcga      719

```

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<210> 71
<211> 519
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (13)..(13)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (24)..(24)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (35)..(35)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (44)..(44)
<223> n equals a,t,g, or c

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<400> 71
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cccgggggctg caggaattcg gcacgaggtt ttgttttggt tttttctaata cctgctttca      120
tactagccag tgtggggaaa aggtacaata tgtcaaagag atgagagagt gttatttctt      180
gggcaatttt ctattagtgt ttcttatttt ggccagttct tttatttatg tccttgtgac      240
ccagggtactt gggggggccag ctacccttct gcccttttag cgtctttgaa ggagaccaga      300

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catgagtga	tacctaggag	agtgtcagca	tgtttctgga	aaattggcag	agaccaagcc	360
ctgctgcaga	ttcgtcaggc	caggtgaaag	ggccaggcag	ttgcagctga	tgatgtaaat	420
attttgtaca	gtagataaat	aaatgtttta	aaaaaaaaaa	aaaaaaaaaa	aaaaraaaaa	480
aaarwaaaaa	aaaactcgag	ggggggcccc	gtacccaat			519

<210> 72  
 <211> 826  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (726)..(726)  
 <223> n equals a,t,g, or c

<400> 72						
ggtcgaccca	cgcgteccgc	tccctttggt	ttggtggcag	ccttcttggt	ctgtatactt	60
gttccctagg	gtgtataata	atatgtgcac	tagagtgtca	ggtaccctac	cacattgctg	120
ggaccttgcc	acactgctgc	agccttccag	taggatattg	gggaatgtca	gtgaggctcc	180
agggatgtag	atatgtaggg	aatgttggac	cccagggcaa	catgcaatct	ggtaggagtt	240
gggctctcaa	aatgggtgctg	ctgtgttaaca	gctgcttggg	tcttggggta	gggagtgtag	300
gaccagcat	gagctccctc	tttgagcag	tgctgtctga	gactccaggc	agctccgtgt	360
attagtctca	ggacctgcaa	aggcctaggg	gctctttttg	ggtaggactg	caggagtctc	420
catggtggga	atgtgaacca	ctggaaatct	ctcatttacc	atttccctgt	actggagatg	480
ctttctgggc	tcccagatga	tactarctgg	gctggttgcc	tcamtccctt	ctccctctgt	540
gcataaggca	ttttctgtca	cttctctgct	gaactctagt	gttctttctt	agaggctgta	600
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ggtgcctcta	gtcaatcac	ttgaagcccc	ctgttatgtt	aaagtcttta	atggaaaaag	720
aagacnecat	gcatgaccag	gcagatactt	tgagcagagt	cataggaact	gctaaaaaaa	780
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaagg	gcggcc		826

<210> 73  
 <211> 911  
 <212> DNA  
 <213> Homo sapiens

<400> 73						
gaattcggca	cgagacgaca	atgggggaacg	cggtgttttc	cacctcttgt	gggtagaaaag	60
cagtctgctt	tgaggaggcg	agaaggcaaa	gccagggcag	ggcgttgctg	tgggaagcgt	120
tcggtgaaaag	crggtttcga	cgcttaggag	ggccgaggga	gaagattcca	ccagcattgt	180
ccttgcttca	agtttttagga	tgtctgaact	ttcagctttc	atgttttcaa	ccatcatttt	240
tttaatggca	caacctacat	cttggtttta	aaagaagtag	cctcaaatta	aactcctaaa	300
ctctgatgcc	ctggggatga	gaacaactag	ctkggatctc	gtgccgtgta	atcaatgttt	360
cattccgctg	cctccatcat	gtaatagaat	cgcttccaga	aaggcagtta	actggaagca	420
gcagaggctc	ccagccgtga	gaggactgct	caacaatgcc	ccccatcgcc	gccccccac	480
ccctcgacc	ccttggtgtt	tccctctga	ggggcccaag	ggttatggct	ttcatgtcta	540
ggtgtgggga	cagaggaggg	agaggcagat	ccygggcccgg	gagaggatgg	ccctgggtctg	600
aatctggagt	aattaatgcc	cacccaaaga	aaaggccctg	cccagggtcca	atgttgtctt	660
agatctgatg	atgctgctat	ttacaaaaca	ctgatcgctc	gaaagcttga	atctgttcct	720
cctcgaatga	ccctgtagat	gcctgacctc	caccgtacct	ccacatcact	attcatgtcc	780
ttctaggaaa	atgtgcacat	gcctcacgca	ctatgtggga	agggcgtgtt	tttaaattaa	840
taaagtgtgt	caccattagc	catamraaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	900
aaaactcgta	g					911

<210> 74  
 <211> 722  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> (2)..(2)

<223> n equals a,t,g, or c

<400> 74

gnaattcggc	acgagaaaaa	tttacgggta	acactgaggg	gtgggggtgga	aagttttgat	60
cataaagtgg	tcaccaacaa	gggcacttct	gaggtgctaa	tgatgttctg	ttttctgatc	120
tgggtcgtgg	tgacattcac	atattcatta	aattgtacat	ttgttttaca	taagtttatt	180
atatttccta	attttaaaaa	agttaaaagg	aggaggaaaa	agttggttat	gaaagtgtaa	240
ccattcttcc	aaaatatcaa	ttaaaacaca	tctgaattaa	gaggtaaaaat	atatcaaaga	300
ttgacagaaa	acaaaagctc	tgaaatgata	tttccagcct	aagaacagtc	gttgcttttg	360
ttggtttagg	aagttttggt	ctcctgaact	aatgttcaaa	atgaaaaaaaa	gtcacctggg	420
ccaggagcag	aggcccacac	ctgtaatccc	agcacttttg	gaggccgarg	tgggtggatc	480
acaaggtcag	gagatcgaga	ccatcctggt	taacgtgggtg	aaaccccatc	tctacaaaaa	540
tacaaaaaat	tagctgggct	tagcgggtggg	catctgtagc	cccagctact	cgggagattg	600
aggcaggaga	atggcatgaa	cctgggaggt	agagcttgca	gtgagccgag	attgcgccac	660
tgtaccagcc	taggtgacag	agcgagactc	cgtctcaaaa	aaaaaaaaaa	aaaaaaactc	720
ga						722

<210> 75

<211> 845

<212> DNA

<213> Homo sapiens

<400> 75

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cgggtatttc	aaataaaaatc	ctttctggta	tgaaaggctc	cattgatattt	attaagcctt	120
cctttacctt	gtagtacaag	gtgctttaat	gggatagaac	taagcatatc	aatatctata	180
actgcatttt	gtgctagaca	attactgttc	ttttctctaa	aatgtatatg	tcaattttaca	240
aggccaggga	tagaaaacac	tccataattg	ctttccttga	ttttgctgag	gatttggtat	300
gatttttagta	agcaaaactgt	tttttggttt	ttccttaatg	tttttaattt	tttttcctct	360
tgcaacaatg	acggtgcatg	ttcttataaa	tataggaagg	tccagatata	aatagtaacc	420
taaagtctct	gctgtgctta	aaaaaaaaaa	tcatgtggcc	ctttcaatat	ttgaactgct	480
aagcaatgac	atctgtagtt	ttatctcctt	ttttatgtca	tagaaattaa	tatgatactt	540
taaatatgta	aatataatac	attaggtaat	gctattatgt	atatctgtct	taacataatt	600
taagttgtag	ctgtgtcttg	gaaatatattt	taaggtaatc	tatattcaca	ttgcctgtgt	660
taatgctttt	taaagtttgt	atacatcaga	tgtatatattt	tggtttggca	taagctacga	720
ttgtaatttt	tcttggtctt	ttgttcataa	agaatttttt	gaaggaaatgg	taacaaatgg	780
taatttacaa	atggttgtga	ataaacacat	ttttacactt	aaaggwaaaa	aaaaaaaaaa	840
ctcga						845

<210> 76

<211> 882

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (881)..(881)

<223> n equals a,t,g, or c

<400> 76

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ctttccctgt	cttggtccat	tttcttttct	tttttctttt	ttctttttcc	tttctttcgt	120
gggctgagaa	aggggcaggc	aaaatgaagc	tggccactga	aaactgtaag	atgggtcaaaa	180
gctgacagcc	tgtgtatgtg	aaaagggaat	tgtaaatgga	ctgcaatgta	atgtacactg	240
taatttgaat	acaattactg	tatctaaaag	gagctgctat	gaagtacctt	tcttatgttg	300
ctaggctact	gtttctgaaa	gccctggatc	tctttgcacc	aaaaatggtc	cagatagact	360
ctttttaagg	atcttggtcg	ctttttacta	gaaggttgct	tttatgagca	tattttatact	420
gctgaaggat	gagtgttaat	tttaattaac	tttgccgttt	tgtagagaaa	actattccac	480
aagataaatt	ccaagtcttt	tcacctgtca	ggcatgcata	ttttaatatc	tgtttggtata	540
gtcagaagta	gaatcataaa	ggtaaaatat	gagttgttac	tttgtttctt	cgatgtcata	600

ttttatgtgt	aatatatatg	taaagggcca	ttcttaagtt	ctctccttaa	acttaatgct	660
gtcaagtgtt	agatgtgtgc	atgtgaactt	gttgcaactgc	agaaacatat	tcagagttaa	720
tctatgtaac	ttattcactc	tgtaaataca	tttaaagttt	ttgtgatgta	agcttaattg	780
atattctgtt	cagaacttty	tttagwctaa	araaagttct	gaacagaata	tcaattaagc	840
ttacattgat	attctgttca	gaactttctt	tagctagaaa	na		882

<210> 77  
 <211> 1590  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1374)..(1374)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1397)..(1397)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1516)..(1516)  
 <223> n equals a,t,g, or c

<400> 77						
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tgtcaagact	gatgctcagg	aggatcccaa	ctgtcatgag	caacacccat	cgaacacagc	120
catccacctg	ggaacagatc	aagaagctgt	cacagatggg	gggagaaaac	ctgaggaaaag	180
cgggacaacc	agtcacaatg	agtaatttaa	tggtagctat	gatagcagtg	atcaccattg	240
ccgtgagtat	tccttcaaca	agggctgaca	cagagatcag	ttatacttat	tgggcatatt	300
tgtcaatttt	ggctggcaat	aatgcctgga	tataatcact	ttatgacaca	gttacacatg	360
ctttctgggtc	tcaatattta	ccataataag	tctgctccta	taattgaggc	ataccaccct	420
caaaaatcta	tttgtaaaca	aaattgaacc	tggccagaaa	aatgaatgt	acttttttag	480
gaaggttgca	ttgcagaaca	ggcagagggtg	ctgcacaacg	attcctatgg	aatcattatt	540
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cacactgtgt	tcaactggtc	tgaacagaat	ggtcagatgg	tacaaatggg	aagacgtatg	660
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<210> 78  
 <211> 1373  
 <212> DNA  
 <213> Homo sapiens

<400> 78

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<210> 79  
 <211> 1107  
 <212> DNA  
 <213> Homo sapiens

<400> 79						
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<210> 80  
 <211> 1129  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1053)..(1053)  
 <223> n equals a,t,g, or c

<400> 80

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<210> 81

<211> 1987

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1554)..(1554)

<223> n equals a,t,g, or c

<400> 81

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aaaaaaa						1987

<210> 82  
 <211> 2053  
 <212> DNA  
 <213> Homo sapiens

<400> 82						
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<210> 83  
 <211> 1193  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1080)..(1080)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1186)..(1186)  
 <223> n equals a,t,g, or c

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gaccaccagg gcatctctgg gctggatgag ctcccacaag cctgagggaa aggccagcac      180
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gagtcctcc ctctcaacac ccagtttctt tgggagttgt cattaaagga aaaaaaacac      1020
aaaaaaaaag ccagtgccca gggatgggca tctccaggga gctggggatt agtgccaggn      1080
agccctgccca gccatgccta catccccatg ggcacagaac aagccaaagc cttcgttgta      1140
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<210> 84
<211> 541
<212> DNA
<213> Homo sapiens

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<400> 84
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aagggtgttt tgtctttgag aaaggcaagg atgaagggca agatttgagc catggtggta      180
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ccagaagtca aatccaggtc tctgtgamct caaggggcac caaartgagt atcaaaaagg      480
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<210> 85
<211> 985
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (633)..(633)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (642)..(642)
<223> n equals a,t,g, or c

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<400> 85
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gtatcattga gcttcatttt acagaaccag catgttgtcc ttagacttcc ctctgatcct      180
tttaggtctc aacttacata ttgccctctt gagccttcta gttcccagac tgagtttagga      240
acccaacccc atgctggact cagttagtcc tttccacatt gtgctgtaat tggctatacc      300

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ccatctgtcc	ttcctgccag	actaggagtc	tcctgcgggc	cctaacgttc	ccaatttccg	360
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aaacaaataa	gaatcatata	gtattagcag	cactagataa	aagggtgtaa	atcttaagt	480
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<210> 86

<211> 889

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (117)..(117)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (292)..(292)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (341)..(341)

<223> n equals a,t,g, or c

<400> 86

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<210> 87

<211> 558

<212> DNA

<213> Homo sapiens

<400> 87

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cttcaagtct	gtctttcttg	ccatggtgta	cagcaattat	aggaagcatt	ttcacatact	360
gtgtgtgtgt	gtgtgtgtgt	tttgtagtga	tgaacagaac	ttgttattta	cccaattcta	420
ttatctatca	taatagtaaa	ttagctacta	taatagacaa	aagtatgact	ctcagttaaa	480
taagagattt	tttaaaaaact	tgttacaaaa	aaaaaaaaaa	aaararaaar	aaaaaaaaaa	540
aaaaaaaaaa	gggcggcc					558

&lt;210&gt; 88

&lt;211&gt; 931

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (930)..(930)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 88

gaattcggca	cgagaaccag	atgtttttcc	acacagaatg	ctagttcttt	aagacacagg	60
ctgggtgaca	tgtttcctta	gagtgacaat	atttccttat	agtgacattt	tccttgactg	120
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agtggtactt	ggtgcacgcc	aggtgctaga	caatgtgtgt	gacaaggatg	cacgtgaaat	240
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gctaacacgg	tgaaacaccg	tctctactaa	aaatacaaaa	aaaaatttag	ctgggcgtgg	900
tggcatgcgc	ctgtagtccc	atctactcgn	a			931

&lt;210&gt; 89

&lt;211&gt; 588

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 89

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taattatcct	tatattgcag	acaaggacat	tgagacagag	gtcaagccac	cttcccaagg	240
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tcaaattgagc	tatgcatgtc	aaaagtttaa	aaataaaaaa	gataaaaaaca	tgcacaaaat	360
ttaaaaagta	aaccatttca	agctggacag	actaaaactg	agagatggcc	agagaagagt	420
atgaaagata	aatctatgga	cagagtaaac	cctgactggc	ttgaaattag	ggcccttact	480
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&lt;210&gt; 90

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (443)..(443)

&lt;223&gt; n equals a,t,g, or c



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tgcaaaaaaaa	aaaaaaaaaaa	aa				1882

&lt;210&gt; 92

&lt;211&gt; 1391

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 92

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ttaattttgc	ttttggaatg	tttctttgta	gctgaagctt	tagtgatgag	aagttagaaa	180
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cattgtttga	acttatttcc	ctaagcaaaa	aacagccaga	aagaagaaaa	tccagaacat	300
gtagaaattc	agaagatgat	ggattccctc	ttcttaaaat	tggatgccct	ctcaaacttc	360
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aagaaacgag	agcgaaggaa	aaagaaatat	caaaagcgta	tgaaaataaa	agagaaggag	600
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aaaaaactcg	a					1391

&lt;210&gt; 93

&lt;211&gt; 930

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 93

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attaattaac	ttgacagaag	ttgcacactt	tctgtacttc	tgaaccaaaa	tttggtatgca	360
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ctttggggagg	cccaggcagg	tggatcaact	gaggtcagga	gtttaagacc	agcctggcca	720
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ccgtagtccc	acctactggg	gaggtcgagg	caggagaatt	gcttaaaccc	aggaggcaga	840
gcttgcatgtg	agctgaaatc	gtaccacagc	actccagcct	gggcaacaga	gtgagactcc	900
atatccaaaa	aaaaaaaaaaa	aaaaactcga				930

&lt;210&gt; 94

&lt;211&gt; 998

&lt;212&gt; DNA

<213> Homo sapiens

<400> 94

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ttggcttctt tcttttttagg ttgtagggga gaccattgt ctagagagaa tatacgcttt      180
gacttgatga aatcccagtt taatctagaa aggtccattt tgagggttaag aacatttcgg      240
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cttctgcaac tgtgctctgt cctggcaacc tgcttctgta atctgtttat ccccaaatTT      540
gaatgagtaa taggaattgc ctaaatTTtg gataaattat cctacaaaat aaaagcattc      600
tcacattgcc ctctcaaate acatgatctt tgtagaaaat ggccgggtccc tatgaagcta      660
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gtgtgtgcct gtaatcccag ctactcagga ggctgaggca ggagaattgc ttgaaccagg      900
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<210> 95

<211> 830

<212> DNA

<213> Homo sapiens

<400> 95

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cctaatatca aagtgatatt tcttcctcca ggcaccacct ctttgatcca cacaatggat      180
caaggagtta tagcagcttt taagtcttac tacctgagaa gggaggactt ttgccagtc      240
ccatactgca gtggaggaag acactgagaa gactctgatg aaattctgaa cagcatcaag      300
aaccttggtt aggtctggat tatgtcgcta aggactgtag gaatggcacc tggaagaaga      360
cacgcaagag gtttgtcaat aayttcaaa gatttgccaa ggatgasgaa gttgcaaaaa      420
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agaactccca agaatactca cagtgtggg tttagcagaa gcttcttcag actccaacaa      660
gtcctttaag aagtctgaaa acatggaccc caaaactgaa aggttttcac taatagagag      720
gaaagtctat ggtgcattat ctgcctacaa gcaaaaccag gattcaaaaa accctttgag      780
ctggagcttc aaagcacaaa aaaaaaaaaa aaaaaaaaaa aagggcggcc      830

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<210> 96

<211> 867

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (457)..(457)

<223> n equals a,t,g, or c

<400> 96

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tgctgggtctc caccacacag gtttataacc aagagcccta cagctcttgt cccaccctga      180
gggcctgact gacctgtgga gggccccacc tttgcctcc attcactcac cctgttccc      240
aagaaccact gacttcttta catgaagcct actttgagta agtttttagg tacagatgct      300
gaattaccca agctgtatcc accctcactc caggcaccct gaggagagac tcaactgctt      360
ggcccagggt tagagaggcc cacacgggaa ggcagagtgg agcagatgtt atttaaccaa      420
aagtctgtat cctggggctc ccagctacca cagtcangaa acacattttt aaaaaatcma      480

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cttctctggt	ctttcaggtt	gcytgcataa	ctawgtactt	ggttgaactt	gtaattcttg	360
ctgacaacag	tcctgctggt	ttccagtaag	gttcgtgatc	ctcggggcaa	ttttgatcag	420
tccctacgtg	tactgaaaca	tgccaagaag	gttcagcctg	atgttatttc	taaaacatct	480
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ga						722

<210> 99  
 <211> 753  
 <212> DNA  
 <213> Homo sapiens

<400> 99						
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gaattaccat	aacatcactt	ctttgagatt	ttcttgggtca	aggcaaatca	catgacaagg	240
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acaaaagagga	atgcatatag	agatgggggg	aatatgtgac	caactttagt	aatcactgta	360
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aactcataaa	gtgcatttcc	atatttatgt	agaatatcaa	tctcctgctg	tctttgactt	600
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cttccgagtc	aatatgtgac	atgccatccc	acctttttgt	gttaccacat	tattataaca	720
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<210> 100  
 <211> 696  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (605)..(605)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (648)..(648)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (655)..(655)  
 <223> n equals a,t,g, or c

<400> 100						
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ctactccaca	aaataatttt	ttcttttttg	agttgaaaaat	taactgcatt	attaactaat	180
taataaaaata	aatcaagtgg	tataagggat	tagtttaccc	tcaagccgat	gactccatgg	240
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696

<210> 101

<211> 455

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (431)..(432)

<223> n equals a,t,g, or c

<400> 101

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<210> 102

<211> 389

<212> DNA

<213> Homo sapiens

<400> 102

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<210> 103

<211> 960

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (460)..(460)

<223> n equals a,t,g, or c

<400> 103

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tcaaacaatg	tcacatccaa	aacactagtt	tcatcaattt	ctagcagtaa	taatagactt	240
gctgtaagta	ttgttttctg	atgccatacc	cttgtcatac	atattattaa	atgaccaata	300
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ggatatcaac	cacggttcct	ccttccagaa	tgtcccaaga	gccttagggc	ctggagacac		480
acaggtgggg	gcctgagccc	ctgtccccct	cctccagatg	gagcaggcag	ggccccaggg		540
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<210> 106  
 <211> 685  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (7)..(7)  
 <223> n equals a,t,g, or c

<400> 106  
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 attggaagcc ctcattgagt cagggcccg cacttggtcca gagggccacg actgggggatg 180  
 tacttgacct cacagccatc tgggatgagc cgcttttcag ccaccatgtc ttcaaattca 240  
 tcagcattga acttggtgaa gcccacttc tttgagatgt ggatcttctg gcggccagga 300  
 aacttgaact tggccctgcg cagggcctca atcacatgct ccttggttctg cagcttggtg 360  
 cggtatgaca tgataacttg gccaatgtga accctggcca cagtgccttg gggctttcca 420  
 aaggcacctc gcatgcctgt ttggagcctg tcagcccccag cacaggacaa catcttggtg 480  
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 cttttttacca tgtacttatt ggcacaaatt cgggcagcct ccagggtctc agaggacagc 600  
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 ttccgcccc a ggyaaaaat gcgaa 685

<210> 107  
 <211> 505  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (12)..(12)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (501)..(501)  
 <223> n equals a,t,g, or c

<400> 107  
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 gcacgagttc atctattgaa ggggtgtttga gttttttcac tttttggctt ttgtaagtga 120  
 tatagtttgg atctgggtcc ccattcaaat ctcattgtcaa gttgcagtc ctagtggttg 180  
 aggtgggcct ggtgggaggg gatgggatgg taggggttgc ttctcatgaa tgggtaacac 240  
 catccccttt ggtactgtct ttggcatagt gaggttgttc tcttgagatc tcatttttta 300  
 aaagcatgtg gcacctctcc tttcactgtc tcttgctcct gctccacta tgtgagggtga 360  
 ctactctttt gtttgctttc taccataatt ggaagctttt tgaggcctct ctagaaacag 420  
 aagctgctat gcttctgtga cagcctgcag aaccacgagc caattaaacc tttttctaaa 480  
 aaaaaaaaaa aaaaactcga ngggg 505

<210> 108  
 <211> 1149  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (837)..(837)  
 <223> n equals a,t,g, or c



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tgagccctga	gcttcaaagg	ctgaaattaa	tggtgaacaa	aattgtgcgg	ctctggccat	960
cccatgcggg	caagccatt	gaggggtatc	attaagtaaa	gaaataaaga	gggggaaaaa	1020
agcctgcctg	ttccaaaaac	ctcatcagat	aatgacctca	gtgattgggt	tttcattacc	1080
aaacagcatc	cagagattat	caacccatag	aagaaggagg	gggaaaaaaa	aaaaaaaaaa	1140
aaattc						1146

<210> 111  
 <211> 1333  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (485)..(486)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (493)..(493)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (496)..(496)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (587)..(587)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (633)..(633)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1330)..(1330)  
 <223> n equals a,t,g, or c

<400> 111						
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agagaactac	tccccaggt	atatctgcag	cattcctggc	ttgcctggac	ctccagggcc	240
ccctggagca	aatggttccc	ctggggcccca	tggtcgcac	ggccttcag	gaagagatgg	300
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tggaccgcta	ggtcttgccg	gtgagaaagg	ggaccaagga	gagactggga	agaaaggacc	420
cataggacca	gagggagaga	aaggagaagt	aggtccaatt	ggtcctcctg	gaccaaaggg	480
agacnnatga	tanctntggg	acccggggct	gcctggagtt	tgcatatgtg	gaagcatcgt	540
gctcaaattc	gccttttctg	ttggcatcac	aaccagctac	ccagaanaaa	gactacctat	600
tatatattaac	aaggtcctcc	ttccacgagg	ganagcacta	caaccctgcc	acaggggaag	660
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agaagatgat	gaattgtgat	caggaccaag	atccctgtgg	taaacactct	gattgaatct	1020
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caatgttcat	aaatatttaa	gcaaattaaa	gacaatgtta	acaaattttc	tattaaatgc	1260
cctgagtgat	aaaaccagtt	ggcaataata	ttgccttatt	aaatcttcaa	aaaataaaaa	1320
aaattaaaaa	aaa					1333

&lt;210&gt; 112

&lt;211&gt; 1140

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 112

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&lt;210&gt; 113

&lt;211&gt; 1575

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 113

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<210> 117



<211> 1500  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (71)..(71)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (73)..(73)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (755)..(755)  
 <223> n equals a,t,g, or c

<400> 117  
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 gcccgtagca gtcgcccctc cctcctcgcg cacggggtac tgaggcgga ggtttgaagg 1440  
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<210> 118  
 <211> 360  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (340)..(340)  
 <223> n equals a,t,g, or c

<400> 118  
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 tccccctgca gtgctgcgga atgccacaac ttatccctcc tctccagctg tagtttagta 180  
 tccagtaaca tactcttttc atttcctttc tttgggcaga aggctagatg ttgcctgttt 240

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<210> 119  
 <211> 823  
 <212> DNA  
 <213> Homo sapiens

<400> 119						
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tttcagaagt	taacatcaag	ccatcaaacc	tgggtatagt	gcagaaaacg	tggcacacac	180
tgaccacaca	ttaggctgtg	tcaccattgt	gtgggtgtacc	tgctggaaga	attctagcat	240
gctacttggg	gacataattt	cagtgggaaa	tatgccactg	accgattttt	tttttttcct	300
ctttgcagtg	gggctaggac	agttgattca	acaaagtatt	tttttctttt	ttctcagtc	360
taatttgaac	aggtcaaaga	tgtgttcagg	cattccaggt	aacagggtgtg	tatgtaaagt	420
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gccatgtgcg	gaattcaagt	taccaatgta	acactggcca	gcgggcccag	caatctccat	600
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<210> 120  
 <211> 456  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (456)..(456)  
 <223> n equals a,t,g, or c

<400> 120						
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accagccagc	agcacagccc	ggaatcctgc	tcctgacctg	caccatcccc	accagccac	120
gatagaacgt	ttttgtaggc	attctcctc	atggcgagg	atagagtaca	tgcgagttt	180
tgctctcctc	ccaccctttc	acaagagcac	tgtgctttct	tttcttctct	ttttcctttc	240
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gctactcagg	agaccgagac	aggaggacca	cttgagccca	ggagggtgag	gctgcagtga	420
gccgagattg	caccactgsa	mtccagcctg	gggaan			456

<210> 121  
 <211> 553  
 <212> DNA  
 <213> Homo sapiens

<400> 121						
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aaaaaaaaact	cga					553

<210> 122  
 <211> 1158  
 <212> DNA  
 <213> Homo sapiens

<400> 122  
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 caatagggct gaatgaattt accaaaggaa gctgccttat attatatgcc aggctgctgg 180  
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 catgctactc tgtgcttttc cttgggctcc aaattctagc tcataaagat gcaagttttg 420  
 caatttccta taaatgggta agaaaagagc aagctgtcca gagagtgaga agtttgaaaa 480  
 gagaggtgca taagagagaa atgatgtcca tttgagcccc accacggagg ttatgtgggtc 540  
 ccaaaaggaa tgatggccaa gcaattaatt tttcctccta gttcttagct tgcttctgca 600  
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 cactctgctt ctaatcacc cttctcccag cctctctcta tttgatagag gtctgtccct 780  
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 aacttaaaac atactatata ttttaaggat ctaagaatcc tttagagaag gcacatgact 960  
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 aaaaaaaaaa aaaaaaaa 1158

<210> 123  
 <211> 554  
 <212> DNA  
 <213> Homo sapiens

<400> 123  
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 gctgcagagg tgartgctgt ggctctgtct gcattccccc tggaagactg argcaccagg 480  
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 gcctcctcac tcga 554

<210> 124  
 <211> 1255  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1156)..(1156)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature

<222> (1162)..(1162)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

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 ttcaagaagg cttttgatgt ttgagttaag tttcataagc ttttaaacaa gcatttagac 240  
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 cattatttca actcatttca cagttgtctt tgggtacttct ttttagtactt ttttaaggaa 360  
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 gcgtaacatt tttttcccac agtgactttt ccctcagaat actaaagtca cagaaagtta 480  
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 aatttacatt gagrataatt gacaaatttg tatatacatt tgcaggcaat aatttttatg 1140  
 agctgatctg ccatgnttaa angttttcct ttgtaaacca tttgggtgtg gtatttttta 1200  
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<210> 125  
 <211> 1977  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (664)..(664)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (716)..(716)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1319)..(1319)  
 <223> n equals a,t,g, or c

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 caggctcttcg ccttgatcgt gttctcctgc atctatggtg agggctacag caatgcccac 180  
 gagtctaagc agatgtactg cgtgttcaac cgcaacgagg atgcctgccg ctatggcagt 240  
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 ccccagatca gcaacgccac tgaccgcaag tacctgggtca ttggtgacct gctcttctca 360  
 ggtatctgcc tgtggcacct ccatttgatc ttgggggagg cattaactct aggggttcgc 420  
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ccgggagggtc	cctgccctac	ctgcccgcgt	ccccctccag	agtccctggaa	agccccctccc	780
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gggtgcccc	tggctcccag	actctgtctg	tgccgagtgt	attataaaat	cgtgggggag	1860
atgcccgcc	tgggatgctg	tttgagagcg	gaataaatgt	tttctcattc	aaaaaaaaaa	1920
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaagggcggc	cgctcgcgat	ctagaac	1977

<210> 126

<211> 738

<212> DNA

<213> Homo sapiens

<400> 126

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ctcttcacac	tggccttact	caaaatgcag	attccaggac	tcaggctatc	tactgcctt	180
cttacttaca	attcttatac	cagaacaccc	ttcctcctcc	cctcatctga	atcttacctg	240
gtttttgaaa	tttaagtcag	ggccttctta	ggaagatttc	cctgattcag	atccaagttg	300
aattatgata	accctccttt	ggctcccata	aaatcttata	acttcctaac	tgtgttttat	360
gaatagttgt	ctagtttagc	actatgtcag	gagctattga	cagcagggct	gggcacagtg	420
actcacagct	gtaatcctag	ccctttgaga	ggacaagggtg	ggaggactgt	ttgaggacac	480
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gattgcttga	ccccaggaga	tcgaggctgc	agtgatccat	gatgggtgtca	ctgcactcca	660
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<210> 127

<211> 988

<212> DNA

<213> Homo sapiens

<400> 127

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gacaacaaat	ccaccctggc	aagaattatt	gctcaggggc	tcataaagca	caacgcagaa	180
agccgaattc	agaacatcca	ctttggggag	agactgaatg	cctcagcaca	agtggcccca	240
gggctgggtg	gctggcta	cagcggcagg	aaacaccagc	agcagcaaga	gagcagcatc	300
aacatcacca	acattcagct	ggactgtggt	gggatccaga	tatcattcca	taaggagtgg	360
ttctcgga	atatctcact	tgaatttgac	cttgaattga	gaccgtcctt	cgataacaac	420
atcataaaga	tgtgtgcaca	tatgagcatc	gttggtggagt	tctggctgga	gaaagacgag	480
tttgcccgga	gggatctggt	gataggcaaa	tgcgatgcag	agcccagcag	tgtccatgtg	540
gccatcctca	ctgaggctat	cccaccaaag	atgaatcagt	ttctctacaa	cctcaaagag	600

aatctgcaaa	aagttctccc	acacatggta	gaaagtcagc	ccctggcctg	atccttctct	660
ctgtgctgat	gggccaggta	tgctctctga	tcggtgaaat	cctcgggcag	ctggatgtga	720
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tgaaaaaaaa	aaaaaaaaaa	cggcacga				988

&lt;210&gt; 128

&lt;211&gt; 912

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (906)..(906)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 128

gaattcggca	cagagaaaca	tttcatcccc	agtaagattc	ctcatcgta	ttcacagggtg	60
atctctgttc	ccaccctagc	cttggacaat	tctgcatcta	ctttgtagct	ctataaattt	120
gccttttctg	gacatttcat	gtaagtcgat	cacacagtat	gtgttccttt	gtgactggct	180
gcttttgctt	agcatgacgt	tcttggggct	cgcaacgcag	cttgtgtctg	ttgttcattc	240
cttttgcagc	agaatcgtat	tctgttggtt	ggatgggcca	cctgtttgtt	gtctgtttac	300
tctccagctg	gtggacattt	aggccgtttg	cactggcggt	tactgtgaat	catgtcgctg	360
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ggtagargg	tagttttttg	ttccccctgg	agactctctg	gtttccacat	atggtagttt	480
tatgcttaac	cttttgagaa	attgccaaat	ggctttctga	agtggccacg	tcattttgct	540
ccctccagcc	gtttgtaatg	ttcccatttc	tccatgtgtg	aattttaata	caaagcagta	600
aaaagttgcc	attatggacc	tagtaaattc	tgaggtaaca	taagagagaa	ataatgatgc	660
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aagcgctttg	ctgacttgtg	atgttttaaa	atctagcatt	attttcaaat	gctgtgagag	840
cactgaagat	aaaggatttg	attccttttt	tcaggcatcc	aaggatgggt	catcatcaag	900
aatcanttta	at					912

&lt;210&gt; 129

&lt;211&gt; 569

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(1)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 129

ntaagggtgtt	gattctggat	cacgggatac	cattcctgtc	macaccccga	ccaggggcta	60
gaaaatttgt	ttgagatttt	tatatcatct	tgtcaaattg	cttcagttgt	aaatgtgaaa	120
aatgggctgg	ggaaaggagg	tggtgtccct	aattgtttta	cttgtaact	tgttcttggtg	180
cccctgggca	cttggccttt	gtctgtctct	agtgtcttcc	ctttgacatg	ggaaaggagt	240
tgtggccaaa	atccccatct	tcttgacact	caacgtctgt	ggctcagggc	tggggtggca	300
gagggaggcc	ttcaccttat	atctgtgttg	ttatccaggg	ctccagactt	cctcctctgc	360
ctgccccact	gcaccctctc	ccccttatct	atctccttct	cggctcccca	gccagtcctt	420
ggcttcttgt	cccctcctgg	ggtcacccct	ccactctgac	tctgactatg	gcagcagaac	480
accaggcctg	gcccagtggg	tttcatgggtg	atcattaaaa	aagaaaaatc	gcaacccaaa	540
aaaaaaaaaa	aaaaaaaaaa	aaaactcga				569

&lt;210&gt; 130

&lt;211&gt; 646

&lt;212&gt; DNA

<213> Homo sapiens

<400> 130

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tacagacttc	caagaggctg	attctggctt	caagatggag	ccttggagtt	ggtttttttt	180
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gtgttccctat	aaaggccctt	ttctttctta	gtgttgtaag	ttacattttc	attatgcccc	360
atcacatctt	ctttactgta	aaaatattaa	aaagctgttt	ccaagtggga	cagctaataa	420
agctctaatt	attgcagaca	tatttttgag	atgtaaaaaa	aaaaatttaa	agttaaatga	480
taagtcttag	aggcgagtga	ggaataaaat	ggatgtaaac	atttacatgg	gatgcattag	540
aattctgctg	tgtgtactgt	cttttggttg	aaacaaatta	tgaacagtga	ctaataataa	600
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<210> 131

<211> 1183

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (266)..(266)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (426)..(426)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1170)..(1170)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1178)..(1178)

<223> n equals a,t,g, or c

<400> 131

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ctgtgctaaa	aagagaaagt	ccaaaagact	ctaaacaaaa	acctcgacgc	cgttgaggat	180
gtgtttcatt	ctgggtggtc	gttttgcaag	cttgataaca	gaatgtccgt	gccattgtaa	240
atgtttaga	gatgtgggcc	gtggcncaac	cgtcctatat	gwtgttagca	tggtacagaa	300
caaactgctt	acacaggtct	cactagttag	aaacctgtgg	gccatggagg	tcagacatcc	360
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ctttttcaaa	ctgtccatgg	gaaggctgaa	ttgagtgaac	ccccagaatg	aagatgagaa	1020
ggtgaatata	atcaatgcca	atgtaatgcc	agcgggtgar	gatggccgat	ggragggttt	1080
caaagatgta	gctagcattt	tggaaccat	atgggcaaaa	cccgggcaac	cagagggggg	1140
aacagggtta	gggaccgttt	cccaggaaan	tccccaantt	ttt		1183

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<220>
<221> misc feature
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<222> (621)..(621)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (651)..(651)  
 <223> n equals a,t,g, or c

<400> 133  
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 ggaaaggggc cacagagaag ttgtctgcat tcaaaaagagc attctattaa agctacctta 180  
 atttggcgct tatttttctt aatcatgttt ctgacaatca tagtgtgtgg aatgggttgc 240  
 gctttaagyg caataagagc taactgccat caagagccat cagtatgtct tcaagctgca 300  
 tgcccagaaa gctggattgg ttttcaaaga aagtgtttct atttttctga tgacaccaag 360  
 aactggacat caagtcagag gttttgtgac tcacaagatg ctgatcttgc tcagggttgaa 420  
 agmttccagg aactgktaag aaaatagttc tggccagaat caaagattca gccctacaag 480  
 gatatgtttt cctgtgaaat tatctaagag aatttcctgt tgagatataa aggcccatct 540  
 gatcactgga ttgggctgas caragaacaa ggccaacccat ggaaatggat aaatgggtact 600  
 gaatggacaa gacagtaagt nctaaaaatc tggcagtaat atttgtattt naatttactt 660  
 tgcattaaat ctgaagtgtt ctctagttac atgc 694

<210> 134  
 <211> 1032  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (593)..(593)  
 <223> n equals a,t,g, or c

<400> 134  
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 tgctggtatc actgcagtgc ttgttgccagc tgtagaatyt ytgagctgcg tgcagtgtaa 180  
 ttcatgggaa aaatcctgtg tcaacagcat tgcctctgaa tgtccctcac atgccaacac 240  
 cagctgtatc agtcctcag ccagctcctc tctagagaca ccagtcagat tataccagaa 300  
 tatgttctgc tcagcggaga actgcagtga ggagacacac attacagcct tcaactgtcca 360  
 cgtgtctgct gaagaacact ttcattttgt aagccagtgc tgccaaggaa aggaatgcag 420  
 caacaccagc gatgccctgg accctcccc tgaagaacgt gtccagcaac gcagagtgc 480  
 ctgcttgta tgaatctaata ggaactttcc tgtcatggga agccctggaa atgctatgaa 540  
 gaagaacagt gtgtccttcy tagttgcaga acttaagaat gacattgagt ctnaagagtc 600  
 tcgtgctgaa aggctgttcc caacgtcagt aacgccacct gtcagttcct gtctggtgaa 660  
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 aaaaaaaaaa aa 1032

<210> 135  
 <211> 537  
 <212> DNA  
 <213> Homo sapiens



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<210> 138

<211> 1720

<212> DNA

<213> Homo sapiens

<400> 138

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<210> 139

<211> 1566

<212> DNA

<213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
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<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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<210> 140

<211> 774

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (697)..(697)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (709)..(709)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (716)..(716)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (733)..(733)

<223> n equals a,t,g, or c

<400> 140

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aatgttggat gaatgaatga agttgaagag agggtaggcg gggaacgagg atgaggggga      180
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tgggtcatga tcaggaattg atgctttggt tttgtnttga aacggagtnt cgccantgca      720
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<210> 141

<211> 1294

<212> DNA

<213> Homo sapiens

<400> 141

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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaact	cgtat			1294

<210> 142  
 <211> 680  
 <212> DNA  
 <213> Homo sapiens

<400> 142						
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<210> 143  
 <211> 1168  
 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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<210> 144  
 <211> 930  
 <212> DNA  
 <213> Homo sapiens

<400> 144						
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<210> 145  
 <211> 830  
 <212> DNA  
 <213> Homo sapiens

<400> 145						
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<210> 146  
 <211> 865  
 <212> DNA  
 <213> Homo sapiens

<220>





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470

<210> 149  
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 <212> DNA  
 <213> Homo sapiens

<400> 149  
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 caccatcttc cctcttgggt gttttccgaa agtgacagtg ttggtcatcc catgaccact 600  
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 aagtccatgc agaactctgg aaggccaagt tcatcgacgc atgttcacca tatccagcc 780  
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 ttcctttttc aaactgtcca tgggaaggct gaattgagt actccccaga atgaagatga 1020  
 gaaggtgaat ataatcaatg ccaatgtaat gccagcgggg tgagatgccc gatggagrtt 1080  
 tcaaagatgt agctagcatt ttgaaaccat atgggcaaaa cccggcaacc agaaggggac 1140  
 agataaggac cgttccagaa atcccaactc tcacaccag cccaggctgc agtctccaca 1200  
 ccaaacagtc aacaaaacac aaacctgaa ggaaaacctt ttccatacac ccaggctatg 1260  
 cattgaagag ttttccactg tatacatttt tatccagatg aaggatattt tatattttga 1320  
 caataggaaa cagtgaccat ttccagagta atcaaactct gaacaaatga aacatctttt 1380  
 agccaccacc accctgttgc aattaagaca accgtggggg aacacaccac tttttactgt 1440  
 tgaaaccaac acaacgttga aatccaggct tatacgcaga ctccgattcc ctagagaact 1500  
 aaatttggtt ttagtgtgac gggatttgat taagcactta gtatagtctt ttgaacacgg 1560  
 aaatcctgtt gtacttaaag ctagecggacc cgtgaacaac tttgtcaggt tcacgtccta 1620  
 taacggttma aaracacaca cacacataca caaacggtt ctatgagaga ttgatgaact 1680  
 ttgtttaaaa ttttaaaaaa aggaacacgt tctgtaaacg agtcgctaaa tacagaattg 1740  
 tataataaaa aaaaaaaaaa aaaawt 1766

<210> 150  
 <211> 1048  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (79)..(79)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (117)..(117)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (138)..(138)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature

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<220>
<221> SITE
<222> (95)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (204)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 151

Met	Ala	Thr	Pro	Leu	Pro	Pro	Pro	Ser	Pro	Arg	His	Leu	Arg	Leu	Leu
1				5					10					15	

Arg	Leu	Leu	Leu	Ser	Gly	Leu	Val	Leu	Gly	Ala	Ala	Leu	Arg	Gly	Ala
			20					25					30		

Ala	Ala	Gly	His	Pro	Glu	Cys	Cys	Arg	Leu	Ser	Arg	Glu	Pro	Gly	Leu
		35					40					45			

Cys	Pro	Glu	Glu	Ala	Gly	Lys	Cys	Pro	Pro	Gly	Ala	His	Ala	Cys	Gly
	50					55					60				

Pro	Ala	Phe	Ser	Pro	Ser	Xaa	Arg	Asn	Ser	Lys	Gly	Leu	Phe	Cys	Xaa
65					70					75					80

Asp	Ala	Pro	Gly	Phe	Xaa	Arg	Gly	Pro	Gly	Pro	Thr	Xaa	Thr	Xaa	Asn
				85					90					95	

Glu	Ile	Asp	Ser	Trp	Pro	Lys	Gly	Ala	Cys	Pro	Glu	Arg	Asn	Leu	Asp
			100					105					110		

Ile	Asn	Ser	Ala	Leu	Thr	Gln	Gly	Arg	Thr	Ala	Val	Pro	Gly	Ala	Cys
		115					120					125			

His	Leu	Gly	Ile	Xaa	Gly	Thr	Gly	Ala	Gly	Ala	Gly	Ala	Gly	Leu	Pro
	130					135					140				

Phe	His	Ser	Arg	Asn	Pro	His	Ala	His	Ala	Pro	His	Xaa	Pro	Trp	Val
145					150					155					160

Thr	Pro	Val	Ser	Ser	Asp	Pro	Val	His	Met	Ser	Pro	Leu	Glu	Pro	Arg
				165					170					175	

Gly	Gly	Gln	Gly	Asp	Gly	Xaa	Ala	Leu	Val	Leu	Ile	Leu	Ala	Phe	Cys
			180					185					190		

Val	Ala	Gly	Ala	Ala	Ala	Leu	Ser	Val	Ala	Ser	Xaa	Cys	Trp	Cys	Arg
		195						200							205

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<210> 153
<211> 175
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (142)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (149)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (155)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (160)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (163)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 153
Met Tyr Trp Ile Val Phe Ala Leu Tyr Thr Val Ile Glu Thr Val Ala
 1             5             10             15
Asp Gln Thr Val Ala Trp Phe Pro Leu Tyr Tyr Glu Leu Lys Ile Ala
          20             25             30
Phe Val Ile Trp Leu Leu Ser Pro Tyr Thr Lys Gly Ala Ser Leu Ile
 35             40             45

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<210> 157
<211> 116
<212> PRT
<213> Homo sapiens

<400> 157
Met Thr Pro Leu Leu Thr Leu Ile Leu Val Val Leu Met Gly Leu Pro
 1             5             10             15
Leu Ala Gln Ala Leu Asp Cys His Val Cys Ala Tyr Asn Gly Asp Asn
          20             25             30
Cys Phe Asn Pro Met Arg Cys Pro Ala Met Val Ala Tyr Cys Met Thr
 35             40             45

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86

Glu Cys Thr Arg Arg Ile Val Gly Val Asp Gly Ala Ile Lys Ala Leu  
65 70 75 80  
Cys Asn Xaa Leu Val Val Val Glu Leu Asn Asn Arg Thr Ser Arg Asp  
85 90 95  
Leu Ala Glu Gln Cys Val Lys Val Leu Glu Leu Ile Cys Xaa Pro Glu  
100 105 110  
Ser Gly Xaa Val Phe Xaa Ala Gly Gly Leu Asn Arg Val Ala Tyr Leu  
115 120 125  
Pro Ser Val Asn Ser Gly His Leu Val His Lys Asp Thr Leu His Ser  
130 135 140  
Ala Met Ala Val Val Ser Arg Leu Cys Gly Lys Met Glu Pro Gln Asp  
145 150 155 160  
Ser Ser Leu Glu Ile Cys Val Xaa Ser Leu Ser Ser Leu  
165 170

<210> 159  
<211> 67  
<212> PRT  
<213> Homo sapiens

<400> 159  
Met Ile Phe Arg Asn Gly Val Arg Leu Val Phe Val Phe Val Leu Phe  
1 5 10 15  
Tyr Thr Ser Thr Gln Ser Leu Phe Asn Ser Leu Gln Thr Ala Glu Tyr  
20 25 30  
Val Leu Phe Cys Gln Gln Arg Leu Ser Leu Tyr Glu Pro Ser His Val  
35 40 45  
Leu Cys Leu Cys Met Ser Pro His Arg Lys His Thr Arg Glu Ser Asp  
50 55 60  
Thr Ser Gly  
65

<210> 160  
<211> 228  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (134)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 160  
Met Val Leu Gly Leu Phe Val Pro Pro Val Phe Val Val Ser Tyr Ala  
1 5 10 15  
Lys Asp Leu Gly Val Pro Asp Thr Lys Ala Ala Phe Leu Leu Thr Ile

30

<210> 162

<211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 162

Met	Lys	Leu	Met	Val	Leu	Val	Phe	Thr	Ile	Gly	Leu	Thr	Leu	Leu	Leu
1				5					10					15	
Gly	Val	Gln	Ala	Met	Pro	Ala	Asn	Arg	Leu	Ser	Cys	Tyr	Arg	Lys	Ile
			20					25					30		
Leu	Lys	Asp	His	Asn	Cys	His	Asn	Leu	Pro	Glu	Gly	Val	Ala	Asp	Leu
		35					40					45			
Thr	Gln	Ile	Asp	Val	Asn	Val	Gln	Asp	His	Phe	Trp	Asp	Gly	Lys	Gly
	50					55					60				
Cys	Glu	Met	Ile	Cys	Tyr	Cys	Asn	Phe	Ser	Glu	Leu	Leu	Cys	Cys	Pro
65					70					75					80
Lys	Asp	Val	Phe	Phe	Gly	Pro	Lys	Ile	Ser	Phe	Val	Ile	Pro	Cys	Asn
				85					90					95	
Asn Gln															

<210> 163  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 163

Met	Tyr	His	Tyr	Ala	Trp	Leu	Ile	Phe	Val	Phe	Leu	Val	Glu	Met	Gly
1				5					10					15	
Phe	Cys	His	Val	Gly	Gln	Ala	Gly	Leu	Lys	Leu	Leu	Thr	Ser	Ser	Asp
			20					25					30		
Pro	Pro	Ala	Ser	Ala	Ser	Gln	Ser	Ala	Gly	Ile	Thr	Gly	Val	Ser	His
		35					40					45			
His	Ala	Trp	Gly	Lys	Arg	Tyr	Phe	Gln	Asn	Ile	Val	Asn	Asn	Phe	Ser
	50					55					60				
Pro	Lys	Pro	Arg	Gln	Gly	Leu	Ile	Leu	Leu	Pro	Arg	Leu	Glu	Trp	Gln
65				70						75					80
Gly His His Arg Ser Ser Leu Gln Pro															
				85											

<210> 164  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 164

Met Gly Gly Leu Glu Pro Cys Ser Arg Leu Leu Leu Leu Pro Leu Leu

89

1	5	10	15
Leu Ala Val Gly	Leu Arg Pro Val	Gln Ala Gln Ala	Gln Ser Asp Cys
20		25	30
Ser Cys Ser Thr	Val Ser Pro Gly	Val Leu Ala Gly	Ile Val Met Gly
35		40	45
Asp Leu Val Leu	Thr Val Leu Ile	Ala Leu Ala Val	Tyr Phe Leu Gly
50		55	60
Arg Leu Val Pro	Arg Gly Arg Gly	Ala Ala Glu Ala	Thr Arg Lys Gln
65	70	75	80
Arg Ile Thr Glu	Thr Glu Ser Pro	Tyr Gln Glu Leu	Gln Gly Gln Arg
	85	90	95
Ser Asp Val Tyr	Ser Asp Leu Asn	Thr Gln Arg Pro	Tyr Tyr Lys
100		105	110

<210> 165  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 165
Met Ala Ser Leu Leu Gln Arg Asn Leu Cys Pro Arg Leu Ser Val Cys
1 5 10 15
Leu Val Phe Ile Gln Val Phe Val Cys Cys Val Glu Gly Gly Gly Arg
20 25 30
Arg Val Lys Ala Val Leu Phe Arg Ala Pro Phe Gly Glu His Ser Arg
35 40 45
Gln Asn Thr Leu Val Ile Pro Ser Gln Thr Gly Leu Gln Ala His
50 55 60

<210> 166  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 166

Met Asn Pro Phe Ser Val Phe Xaa Ser Leu Cys Leu Lys Gln Phe Glu  
 1 5 10 15

Asp Val Xaa Leu Phe Leu Gly Leu Met Phe Gly Xaa Ser Leu Asn Gly  
 20 25 30

Gln Glu Gly Thr  
 35

&lt;210&gt; 167

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 167

Met Tyr Ile Phe Tyr Leu Tyr Lys Ile Tyr Ile Tyr Thr His Ile Cys  
 1 5 10 15

Ile Tyr Ile Pro Leu Phe Leu Cys Leu Leu Ile Leu Ala Ile Lys Glu  
 20 25 30

Gly Ala Ala Phe Asn Val  
 35

&lt;210&gt; 168

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 168

Met Asn Glu Ser Val Tyr Asp Asp Ser Thr Ser Ser Tyr Thr Pro Ser  
 1 5 10 15

Leu His Ile Leu Gly Cys Leu Leu Leu Leu Phe Leu Gly Val Glu Arg  
 20 25 30

Ala Leu Glu Pro Phe Ser Gly Leu Cys Ala Ser Leu His Asp Val Arg  
 35 40 45

Pro Ile Val Asn Pro Leu Thr Ser Phe Ser Leu Ile Tyr  
 50 55 60

&lt;210&gt; 169

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 169

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91

Met Ser Asp Lys Leu Ser Pro Ser Thr Val Pro Leu Leu Leu Pro Val  
 1 5 10 15  
 Leu Phe Lys Val Thr Ile Leu Leu Gln Arg Val Cys Pro Glu Asp Ser  
 20 25 30  
 Pro Ser Ser Ser Val Leu Pro Glu Ser Val Xaa Arg Glu  
 35 40 45

<210> 170  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<400> 170  
 Met Thr His Lys Ser Leu Val Tyr Leu Trp Phe Leu Cys Ser Ser Val  
 1 5 10 15  
 Ala Leu Ala Leu Gly Ala Leu Thr Val Trp His Ala Val Leu Ile Ser  
 20 25 30  
 Arg Gly Glu Thr Ser Ile Glu Arg His Ile Asn Lys Lys Glu Arg Arg  
 35 40 45  
 Arg Leu Gln Ala Lys Gly Arg Val Phe Arg Asn Pro Tyr Asn Tyr Gly  
 50 55 60  
 Cys Leu Asp Asn Trp Lys Val Phe Leu Gly Val Asp Thr Gly Arg His  
 65 70 75 80  
 Trp Leu Thr Arg Val Leu Leu Pro Ser Ser His Leu Pro His Gly Asn  
 85 90 95  
 Gly Met Ser Trp Glu Pro Pro Pro Trp Val Thr Ala His Ser Ala Ser  
 100 105 110  
 Val Met Ala Val  
 115

<210> 171  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 171  
 Met Ser Val Leu Phe Val Ala Val Ser Leu Leu Ser Ser Ile Val Pro  
 1 5 10 15  
 Asp Ile Gln Tyr Arg Leu Lys Thr Tyr Leu His Ile Asp Leu Trp Lys  
 20 25 30  
 Thr Asp Thr Gln Val Leu Lys Asn Lys  
 35 40

<210> 172

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<211> 281  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (216)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (227)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (268)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 172  
 Met Gly Phe Pro Gln Arg Gln Pro Gly Leu Ser Gly Leu Leu Leu Leu  
   1                  5                  10                  15  
 Val Trp Ala Leu Ala Trp Pro Leu Pro Cys Met Ser Leu Glu Leu Ile  
           20                  25                  30  
 Pro Tyr Thr Pro Gln Ile Thr Ala Trp Asp Leu Glu Gly Lys Val Thr  
           35                  40                  45  
 Ala Thr Thr Phe Ser Leu Glu Gln Pro Arg Cys Val Leu Asp Gly Leu  
   50                  55                  60  
 Ala Gly Val Ala Ser Thr Ile Trp Leu Val Val Ala Phe Ser Asn Ala  
   65                  70                  75                  80  
 Ser Arg Asp Phe Gln Asn Pro Gln Thr Arg Ala Glu Ile Pro Ala Phe  
                   85                  90                  95  
 Pro Arg Leu Leu Thr Glu Gly His Tyr Met Thr Leu Pro Leu Ser Leu  
           100                  105                  110  
 Asp Gln Leu Pro Cys Gln Asp Pro Ala Gly Gly Gly Arg Asp Val Pro  
   115                  120                  125  
 Leu Leu Arg Val Gly Asn Asp Pro Gly Cys Leu Ala Asp Leu Leu Gln  
   130                  135                  140  
 Pro Pro Tyr Cys Asn Ser Pro Leu Pro Ser Pro Gly Pro Tyr Arg Val  
   145                  150                  155                  160  
 Lys Phe Leu Leu Met Asp Ala Arg Gly Ser Pro Gln Ala Glu Thr Arg  
           165                  170                  175  
 Trp Ser Asp Pro Ile Ala Leu His Gln Gly Lys Ser Pro Ala Ser Ile  
           180                  185                  190  
 Asp Thr Trp Pro Gly Arg Arg Ser Gly Gly Met Ile Val Ile Thr Ser  
   195                  200                  205  
 Ile Leu Ser Ser Leu Ala Ser Xaa Leu Leu Leu Ala Phe Leu Ala Ala  
   210                  215                  220

09233-1000  
 1000-0000



Ser Thr Xaa Arg Phe Ser Ser Leu Trp Trp Pro Glu Glu Ala Pro Glu  
 225 230 235 240  
 Gln Leu Arg Ile Gly Ser Phe Met Gly Lys Arg Tyr Met Thr His His  
 245 250 255  
 Ile Pro Pro Ser Glu Ala Ala Thr Leu Pro Val Xaa Cys Glu Pro Gly  
 260 265 270  
 Leu Asp Pro Leu Pro Ser Leu Ser Pro  
 275 280

<210> 173  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 173  
 Met Gly Tyr Leu Asn  
 1 5

<210> 174  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 174  
 Met Pro Phe Ala Trp Asn Asp Leu Thr Ser Leu Leu Phe Tyr Leu Ala  
 1 5 10 15

Gly Cys Phe Ser Ser Cys Arg Leu Gly Gln Gly Thr Pro Gly Ser Leu  
 20 25 30

Pro Trp Thr Ser Asn Glu Glu Gly Ile Ile Gln Gly Pro Thr Pro Met  
 35 40 45

Phe Trp Asn Leu Thr Pro Phe Ser Gly Thr  
 50 55

<210> 175  
 <211> 179  
 <212> PRT  
 <213> Homo sapiens

<400> 175  
 Met Leu Tyr Tyr Leu Trp Met Leu His Ser Val Thr Leu Phe Leu Asn  
 1 5 10 15

Leu Leu Ala Cys Leu Ala Trp Phe Ser Gly Asn Ser Ser Lys Gly Val  
 20 25 30

Asp Phe Gly Leu Ser Ile Leu Trp Phe Leu Ile Phe Thr Pro Cys Ala  
 35 40 45

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Phe Leu Cys Trp Tyr Arg Pro Ile Tyr Lys Ala Phe Arg Ser Asp Asn  
     50                    55                    60  
 Ser Phe Ser Phe Phe Val Phe Phe Phe Val Phe Phe Cys Gln Ile Gly  
     65                    70                    75                    80  
 Ile Tyr Ile Ile Gln Leu Val Gly Ile Pro Gly Leu Gly Asp Ser Gly  
                     85                    90                    95  
 Trp Ile Ala Ala Leu Ser Thr Leu Asp Asn His Ser Leu Ala Ile Ser  
                     100                    105                    110  
 Val Ile Met Met Val Val Ala Gly Phe Phe Thr Leu Cys Ala Val Leu  
                     115                    120                    125  
 Ser Val Phe Leu Leu Gln Arg Val His Ser Leu Tyr Arg Arg Thr Gly  
     130                    135                    140  
 Ala Ser Phe Gln Gln Ala Gln Glu Glu Phe Ser Gln Gly Ile Phe Ser  
     145                    150                    155                    160  
 Ser Arg Thr Phe His Arg Ala Ala Ser Ser Ala Ala Gln Gly Ala Phe  
                     165                    170                    175  
 Gln Gly Asn

<210> 176  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 176  
 Met Thr Ser His Pro Ser Trp Arg Leu Ile Leu Val Thr Ser Leu Val  
     1                    5                    10                    15  
 Leu Gly Val Glu Pro Glu Glu Ala Pro Gly Glu Ala Gly Glu Gly Ser  
                     20                    25                    30  
 Gly Gly Gln Arg Thr Met Asp Pro Glu Gln Lys Trp  
     35                    40

<210> 177  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 177  
 Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu  
     1                    5                    10                    15  
 Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys

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95

20

25

30

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu  
35 40 45

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Asp Tyr Trp Glu Gln  
50 55 60

Leu Arg Cys Leu Xaa Glu Arg Phe Thr Ile Thr Ala Gly  
65 70 75

<210> 178

<211> 31

<212> PRT

<213> Homo sapiens

<400> 178

Met Ser Val Lys Val Gly Ser Leu Leu Val Leu Val Tyr Phe Thr Leu  
1 5 10 15

Gly Pro Val Val Ala Glu Leu Glu Val Thr Leu Pro Ser His Ser  
20 25 30

<210> 179

<211> 257

<212> PRT

<213> Homo sapiens

<400> 179

Met Ala Ala Leu Thr Thr Val Val Val Ala Ala Ala Ala Thr Ala Val  
1 5 10 15

Ala Gly Ala Val Ala Gly Ala Gly Ala Ala Thr Gly Thr Gly Val Gly  
20 25 30

Ala Thr Pro Ala Pro Gln Gln Ser Asp Gly Cys Phe Ser Thr Ser Gly  
35 40 45

Gly Ile Arg Pro Phe His Leu Gln Asn Trp Lys Gln Lys Val Asn Gln  
50 55 60

Thr Lys Lys Ala Glu Phe Val Arg Thr Ala Glu Lys Phe Lys Asn Gln  
65 70 75 80

Val Ile Asn Met Glu Lys Asp Lys His Ser His Phe Tyr Asn Gln Lys  
85 90 95

Ser Asp Phe Arg Phe Glu His Ser Met Leu Glu Glu Leu Glu Asn Lys  
100 105 110

Leu Ile His Ser Arg Lys Thr Glu Arg Ala Lys Phe Gln Gln Gln Leu  
115 120 125

Ala Lys Ile His Asn Asn Val Lys Lys Leu Gln His Gln Leu Lys Asp  
130 135 140

Val Lys Pro Thr Pro Asp Phe Val Glu Lys Leu Arg Glu Met Met Glu

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96  
145 150 155 160  
Glu Ile Glu Asn Ala Ile Asn Thr Phe Lys Glu Glu Gln Arg Leu Ile  
165 170 175  
Tyr Glu Glu Leu Ile Lys Glu Glu Lys Thr Thr Asn Asn Glu Leu Ser  
180 185 190  
Ala Ile Ser Arg Lys Ile Asp Thr Trp Ala Leu Gly Asn Ser Glu Thr  
195 200 205  
Glu Lys Ala Phe Arg Ala Ile Ser Ser Lys Val Pro Val Asp Lys Val  
210 215 220  
Thr Pro Ser Thr Leu Pro Glu Glu Val Leu Asp Phe Glu Lys Phe Leu  
225 230 235 240  
Gln Gln Thr Gly Gly Arg Gln Gly Ala Trp Asp Val Ile Thr Arg Thr  
245 250 255

Leu

<210> 180  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 180  
Met Ala Phe Leu Leu Thr Leu Val Pro Leu Leu Pro Ser Arg Cys Leu  
1 5 10 15

Gly Leu Glu Glu Met Ala Val Pro Asn Ser Thr Cys Ile Ser Pro Phe  
20 25 30

Ser Cys Cys Tyr Gly  
35

<210> 181  
<211> 344  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (126)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (128)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 181  
Met Glu Lys Ile Gly Ser Ser Leu Pro Gln Asp Asp Asp Ala Pro Lys  
1 5 10 15

Lys	Gln	Ala	Leu	Tyr	Leu	Met	Phe	Asp	Thr	Ser	Gln	Glu	Ser	Pro	Val
			20					25						30	
Lys	Ser	Ser	Pro	Val	Arg	Met	Ser	Glu	Ser	Pro	Thr	Pro	Cys	Ser	Gly
		35					40					45			
Ser	Ser	Phe	Glu	Glu	Thr	Glu	Ala	Leu	Val	Asn	Thr	Ala	Ala	Lys	Asn
	50					55					60				
Gln	His	Pro	Val	Pro	Arg	Gly	Leu	Ala	Pro	Asn	Gln	Glu	Ser	His	Leu
65					70					75					80
Gln	Val	Pro	Glu	Lys	Ser	Ser	Gln	Lys	Glu	Leu	Glu	Ala	Met	Gly	Leu
				85					90					95	
Gly	Thr	Pro	Ser	Glu	Ala	Ile	Glu	Ile	Arg	Glu	Ala	Ala	His	Pro	Thr
			100					105					110		
Asp	Val	Ser	Ile	Ser	Lys	Thr	Ala	Leu	Tyr	Ser	Arg	Ile	Xaa	Thr	Xaa
		115					120					125			
Glu	Val	Glu	Lys	Pro	Ala	Gly	Leu	Leu	Phe	Gln	Gln	Pro	Asp	Leu	Asp
130						135					140				
Ser	Ala	Leu	Gln	Ile	Ala	Arg	Ala	Glu	Ile	Ile	Thr	Lys	Glu	Arg	Glu
145				150						155					160
Val	Ser	Glu	Trp	Lys	Asp	Lys	Tyr	Glu	Glu	Ser	Arg	Arg	Glu	Val	Met
				165					170					175	
Glu	Met	Arg	Lys	Ile	Val	Ala	Glu	Tyr	Glu	Lys	Thr	Ile	Ala	Gln	Met
			180					185					190		
Ile	Glu	Asp	Glu	Gln	Arg	Glu	Lys	Ser	Val	Ser	His	Gln	Thr	Val	Gln
		195					200					205			
Gln	Leu	Val	Leu	Glu	Lys	Glu	Gln	Ala	Leu	Ala	Asp	Leu	Asn	Ser	Val
210						215					220				
Glu	Lys	Ser	Leu	Ala	Asp	Leu	Phe	Arg	Arg	Tyr	Glu	Lys	Met	Lys	Glu
225					230					235					240
Val	Leu	Glu	Gly	Phe	Arg	Lys	Asn	Glu	Glu	Val	Leu	Lys	Arg	Cys	Ala
				245					250					255	
Gln	Glu	Tyr	Leu	Ser	Arg	Val	Lys	Lys	Glu	Glu	Gln	Arg	Tyr	Gln	Ala
			260					265					270		
Leu	Lys	Val	His	Ala	Glu	Glu	Lys	Leu	Asp	Arg	Ala	Asn	Ala	Glu	Ile
		275					280					285			
Ala	Gln	Val	Arg	Gly	Lys	Ala	Gln	Gln	Glu	Gln	Ala	Ala	His	Gln	Ala
290						295					300				
Ser	Leu	Arg	Lys	Glu	Gln	Leu	Arg	Val	Asp	Ala	Leu	Glu	Arg	Thr	Leu
305					310					315					320
Glu	Gln	Lys	Asn	Lys	Glu	Ile	Glu	Glu	Leu	Thr	Lys	Ile	Cys	Asp	Glu
				325					330					335	
Leu	Ile	Ala	Lys	Met	Gly	Lys	Ser								

340

<210> 182  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 182  
 Met Met Leu Gly Leu Phe Ser Pro Leu Cys Leu Val Thr Gly Ile Ala  
   1                  5                  10                  15  
 Glu Gly Arg Ala Glu Asp Ala Ser Leu His Asp Ile Cys Thr Thr Gln  
                   20                  25                  30  
 His Thr Leu Thr Phe Thr Pro Ser Tyr Pro Val Gly Gly Ser  
           35                  40                  45

<210> 183  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 183  
 Met Gly Val Lys Leu Glu Ile Phe Arg Met Ile Ile Tyr Leu Thr Phe  
   1                  5                  10                  15  
 Pro Val Ala Met Phe Trp Val Ser Asn Gln Ala Glu Trp Phe Glu Asp  
                   20                  25                  30  
 Asp Val Ile Gln Arg Lys Arg Glu Leu Trp Pro Pro Glu Lys Leu Gln  
           35                  40                  45  
 Glu Ile Glu Glu Phe Lys Glu Arg Leu Arg Lys Arg Arg Glu Glu Lys  
   50                  55                  60  
 Leu Leu Arg Asp Ala Gln Gln Asn Ser  
   65                  70

<210> 184  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 184  
 Met Gln Leu Ser Lys Phe Leu Leu Phe Leu Phe Val Tyr Thr Arg Glu  
   1                  5                  10                  15  
 Asn Pro Thr Ser Ala Cys Val Trp Gly Glu Lys Ser Thr Val  
           20                  25                  30

<210> 185  
 <211> 31  
 <212> PRT

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 100707 8/27/66

Xaa Phe Ser Phe Phe Ser Pro Xaa Pro Ser Ala Pro Gln Pro Pro Thr  
20 25 30

100

Pro Ser Arg Ser Val Leu His Ala Arg Cys Ser Asn Val Arg Ser Glu  
 35 40 45  
 Met Ala Gly Thr Arg Glu Lys Leu Leu Val Ser Phe Val Ser Gly Ser  
 50 55 60  
 Gly Met Ala Leu Ser Ser Leu Ala Ser Leu Phe Val Leu Phe Glu Leu  
 65 70 75 80  
 Cys Arg Ser Leu Phe Ser Gln Ala Glu Leu Pro Thr Arg Ser Ile Leu  
 85 90 95  
 Asp Gln

<210> 188  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 188  
 Met Val Glu Asn Trp Val Leu Glu Glu Ser Pro Gly Arg Leu Leu Ala  
 1 5 10 15  
 Leu Phe Val Val Arg Arg Ala Leu Ala Gln Gly Gln Arg Glu Glu Lys  
 20 25 30  
 Gly Gln Pro Ala Ala Val Glu Ser Ala Gly Trp Leu Pro Thr Arg Phe  
 35 40 45  
 Leu Ser Ser Gln Asp Ser Leu Pro Leu Ser Ser Arg Ile Ser Asn Gly  
 50 55 60  
 Leu  
 65

<210> 189  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 189  
 Met Ile Lys Lys Asp Lys Tyr His Lys Lys Val Phe Leu Phe Gly Trp  
 1 5 10 15  
 Phe Phe Cys Leu Phe Val Phe Phe Leu Arg Leu Ser Leu Ser Leu Leu  
 20 25 30  
 Pro Lys Leu Glu Cys Asn Leu Gly Ser Leu Gln Pro Pro Pro Arg  
 35 40 45  
 Phe Gln Arg Phe Ser Cys Leu Ser Leu Leu Asn Ser Trp Asp Tyr Arg  
 50 55 60  
 Arg Pro Pro Pro His Leu Ala Asn Phe Cys Val Val Ser Arg Gly Gly  
 65 70 75 80

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Val Ser Ser Cys Trp Pro Gly Trp Ser Arg Thr Pro Asp Leu Met Ile  
85 90 95

Arg Leu Pro Arg Pro Pro Arg Val Leu Gly Leu Gln Ala  
100 105

<210> 190

<211> 51

<212> PRT

<213> Homo sapiens

<400> 190

Met Arg Lys Ser Gly Ala Met Lys Lys Gly Gly Ile Phe Ser Ala Glu  
1 5 10 15

Phe Leu Lys Val Phe Ile Pro Ser Leu Phe Leu Ser His Val Leu Ala  
20 25 30

Leu Gly Leu Gly Ile Tyr Ile Gly Lys Arg Leu Ser Thr Pro Ser Ala  
35 40 45

Ser Thr Tyr  
50

<210> 191

<211> 80

<212> PRT

<213> Homo sapiens

<400> 191

Met Ala Phe Leu Pro Leu Thr Leu Thr Phe Cys Leu Ala Pro Leu Ala  
1 5 10 15

Pro Leu Leu Pro Ser Ile Trp Gly Pro Thr Pro Ala Ser Cys Val Val  
20 25 30

Trp Pro Leu Leu Thr Ile Leu Pro Val Pro Ala Gln Ala Ser Pro Ser  
35 40 45

Thr Asp Thr Ala His Leu Trp Gln Arg Pro Thr Thr Gly Ser Pro Thr  
50 55 60

Arg Leu Val Arg Pro Leu Pro Arg Pro Gly Leu Pro Pro Met Trp Ala  
65 70 75 80

<210> 192

<211> 31

<212> PRT

<213> Homo sapiens

<400> 192

Met Ile Thr Leu Cys Ile Phe Leu Leu Phe Lys Val Phe Val Gly Ile

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1           5           10           15
Ile Leu His Tyr Leu Ile Gly Lys Asn Ile Tyr Val Tyr Ser Val
      20           25           30

<210> 193
<211> 60
<212> PRT
<213> Homo sapiens

<400> 193
Met Leu Leu Ser Asn Leu Ser Leu Ser Leu Gln Pro Leu Leu Phe Leu
 1           5           10           15
Phe Ser Phe Phe Leu Phe Cys Lys Met Gly Ser Arg Lys Gly Leu Arg
      20           25           30
His Lys Thr Gln His Phe Ser Ser Met Thr Asp Gln Ile Leu Lys Gly
      35           40           45
Ser Val Arg Ser Pro Ala Leu Gly Gln Leu His Asp
      50           55           60

<210> 194
<211> 78
<212> PRT
<213> Homo sapiens

<400> 194
Met Val Cys Phe Gln Ser Asn Lys Pro Ser Thr Ser Thr Trp Arg Gln
 1           5           10           15
Leu Ser Phe Val Phe Val Leu Phe Cys Leu Phe Cys Leu Gly His Ala
      20           25           30
Phe Leu Ser Leu Pro Phe Tyr Ile Leu Ser Ile Ile Ala Met Cys Leu
      35           40           45
Glu Gln Trp Ala Phe His Asn Met Asn Ser Leu Tyr His His Glu Trp
      50           55           60
Glu Val Arg Gly Asn Leu Ile His Val Asp Phe Thr Leu Pro
      65           70           75

<210> 195
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 195

Met Ser Phe Ser Leu Ala His Val Lys Thr Gly Gln Gly Pro Arg Leu  
1 5 10 15

Thr Glu Ala Leu Gln Tyr Ile Ala Ser Lys Ile Ala Val Gly Val Thr  
20 25 30

Ser Ser Gln Lys Ser Gly Glu Glu Arg Ala Met Xaa Thr Gln Glu Leu  
35 40 45

Leu Met Asp Gln Ala Trp Asp Ser Val Cys His Phe His Gln His Pro  
50 55 60

Thr His Gln Asn Xaa Val Thr Gly Pro  
65 70

<210> 196

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 196

Met Leu Cys Leu Leu Val Leu Thr Gly Leu Xaa Val Leu Ile Val Gly  
1 5 10 15

Ile His Ile Leu Glu Leu Leu Ile Asp Glu Ala Ala Met Pro Arg Gly  
20 25 30

Met Gln Gly Thr Ser Leu Gly Gln Val Ser Phe Ser Lys Leu Gly Ser  
35 40 45

Phe Ala Ser Ser Ala Ser Leu Ser Ala Arg  
50 55

<210> 197

<211> 31

<212> PRT

<213> Homo sapiens

<400> 197

Met Leu Gln Thr Leu Ile Leu Ile Phe Leu Leu Leu Leu Pro Cys Tyr  
1 5 10 15

Leu Glu Leu Leu Cys Phe Ser Leu Ile Ser Ser Ser Ala Lys Thr  
20 25 30

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<210> 198  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 198  
 Met Pro Phe Ser Ser Ser Val Lys Cys Leu Phe Gly Val Leu Leu Arg  
           1                  5                  10                  15  
 Phe Cys Phe Val Val Phe Ser Val Val Val Phe Thr Phe Phe Leu Ser  
                   20                  25                  30  
 Ile Pro Lys Arg Thr Leu Gly Tyr  
           35                  40

<210> 199  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 199  
 Met Gly Gly Lys Gly Ile Asn Tyr Thr Met Pro His Ile Cys Leu Leu  
           1                  5                  10                  15  
 Leu Leu Asn Ala Leu Val Val Ser Cys Leu Leu Leu Glu Ala Ile Leu  
                   20                  25                  30  
 Leu Gln His Leu Val Leu Cys Asn Glu Leu Pro  
           35                  40

<210> 200  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 200  
 Met Phe Met Leu Cys Asn Leu Leu Leu Pro Leu Leu Glu Phe Ile Phe  
           1                  5                  10                  15  
 Gly Ser Thr Tyr Leu Ser Thr Asp Leu Tyr Leu His Thr Cys Met Lys  
                   20                  25                  30  
 Asn Val Phe Leu His Ile His Ser Phe  
           35                  40

<210> 201  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 201  
 Met Leu Val Leu Met Thr Thr Cys Ile Leu Ala Ala Val Cys Val His  
           1                  5                  10                  15  
 Thr Ala Gln Cys Ala Pro Asp Ser Arg Met Asp Asn Asp Cys Pro Ser

30

Pro Pro Leu Phe Gln Glu Val Gln Arg Asp Ala Pro His Arg Lys Gly  
20 25 30

Ser	Ala	Thr	Val	Leu	Pro	Arg	Cys	Pro	Pro	Trp	Val	Pro	Ser	Leu	Lys	
35						40						45				
His	Arg	Thr	Ser	His	Thr	Ser	Ser	Pro	Ala	Val	Pro	Leu	Ile	Leu	Val	
50						55						60				
Pro	Arg	Leu	Pro	Ser	Leu	Gln	Leu	His	Ser	Phe	Ile	Gln	His	Ser	Leu	
65						70						75			80	
Gly	Asp	Phe	Tyr	Ile	Asp	Thr	Pro	Arg	Thr	Glu	Ala	Trp	Gly	Lys	Asp	
			85						90						95	
Asp	Gln	Glu	His	Val	Pro	Ser	Arg									
			100													

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<210> 205
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 205
Met Leu Pro Leu Tyr Phe Leu Gln Pro Tyr Leu Ser Leu Val Ile Phe
  1                    5                10                15

Ile Met Leu Arg Asp Asn Trp His Leu Leu Ala Leu Thr Cys Ser Tyr
      20                25                30

Ser Ile Ile Trp Arg Leu Ser Pro Asp Thr Asn Pro Ser Pro Ile Ala
      35                40                45

Pro Ser Arg His Xaa Gln Leu Xaa Val Val Ala Ile Ala Pro Leu Glu
      50                55                60

Pro Ser Pro His Ser His Met Gln Ser Ile Pro Lys Asn Leu Ala Gln
      65                70                75                80

Phe Ser Ser Ser Gln Met Phe Ser Leu Thr Leu Gln Leu Val Tyr Ile
      85                90                95

Ser Ser

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<210> 206
<211> 74
<212> PRT
<213> Homo sapiens
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&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 206

Met	Glu	Asn	Asp	Trp	Gly	Phe	Gln	Thr	Thr	Phe	Phe	Ser	Leu	Gly	Leu
1				5					10					15	

Tyr	Leu	Phe	Thr	Ile	Trp	Trp	Ser	Thr	Val	Gly	Leu	Pro	Trp	Thr	Ser
			20					25					30		

Ser	Thr	Gln	Arg	Glu	Leu	Asp	Met	Lys	Leu	Glu	Ala	Ala	Ala	Leu	Glu
		35					40					45			

Gly	Lys	Xaa	Gly	Ser	Leu	Gly	Gln	Pro	Arg	Pro	Trp	Gln	Glu	Glu	Ser
	50					55					60				

Leu	Pro	Leu	Gly	Val	Leu	Asp	Gly	His	Val
65						70			

&lt;210&gt; 207

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 207

Met	Phe	His	Val	Phe	Val	Leu	Leu	Leu	Thr	Phe	Ile	Ala	Leu	Ser	Pro
1				5					10					15	

Ser	Gly	Ile	Arg	Leu	Leu	Phe	Gly	Phe	Ile	Gln	Lys	Gly	Leu	Asn	Leu
			20					25					30		

Asn	Ser	Phe	Met	Phe	Arg	Leu	Glu	Leu	Leu	His	Phe
		35					40				

&lt;210&gt; 208

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 208

Met	Phe	Glu	Asp	Thr	Leu	Arg	Thr	Leu	Tyr	Ile	Leu	Leu	Phe	Tyr	Leu
1				5					10					15	

Arg	Tyr	Ile	Cys	Leu	Leu	Ser	Pro	His	Ile	Ala	Leu	Met	Thr	Leu	Ile
			20					25					30		

Leu	Ile	Asp	Gly	Phe	Leu	Gln	Cys	Tyr	Tyr	Cys	Ala	Leu	His	Val	Pro
		35					40					45			

Cys	Ile	Ile	Ala	Phe	Leu
50					

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<210> 212  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 212  
 Met Gln Ser Gly Arg Ser Trp Ala Leu Lys Met Val Leu Leu Cys Asn  
   1                  5                  10                  15  
 Ser Cys Leu Gly Leu Gly Val Gly Ser Val Gly Pro Ser Met Ser Ser  
           20                  25                  30  
 Leu Phe Gly Ala Val Leu Ser Glu Thr Pro Gly Ser Ser Val Tyr  
       35                  40                  45

<210> 213  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 213  
 Met Ser Glu Leu Ser Ala Phe Met Phe Ser Thr Ile Ile Phe Leu Met  
   1                  5                  10                  15  
 Ala Gln Pro Thr Ser Cys Phe  
           20

<210> 214  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 214  
 Met Met Phe Cys Phe Leu Ile Trp Val Val Val Thr Phe Thr Tyr Ser  
   1                  5                  10                  15  
 Leu Asn Cys Thr Phe Val Leu His Lys Phe Ile Ile Phe Pro Asn Phe  
           20                  25                  30  
 Lys Lys Val Lys Arg Arg Arg Lys Lys Leu Val Met Lys Val  
       35                  40                  45

<210> 215  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 215  
 Met Ile Leu Val Ser Lys Leu Phe Phe Gly Phe Ser Leu Met Phe Leu  
   1                  5                  10                  15  
 Ile Phe Phe Pro Leu Ala Thr Met Thr Val His Val Leu Ile Asn Ile  
       20                  25                  30

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Gly Arg Ser Arg Tyr Lys  
35

<210> 216  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 216  
Met Tyr Ile Leu Ser Leu Ser Cys Ser Ile Phe Phe Ser Phe Phe Phe  
1 5 10 15  
Phe Leu Phe Pro Phe Phe Arg Gly Leu Arg Lys Gly Gln Ala Lys  
20 25 30

<210> 217  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 217  
Met Ser Asn Leu Met Val Ala Met Ile Ala Val Ile Thr Ile Ala Val  
1 5 10 15  
Ser Ile Pro Ser Thr Arg Ala Asp Thr Glu Ile Ser Tyr Thr Tyr Trp  
20 25 30  
Ala Tyr Leu Ser Ile Leu Ala Gly Asn Asn Ala Trp Ile  
35 40 45

<210> 218  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 218  
Met Ile Met Glu Glu Ile Phe Leu Asn Leu Ile Lys Asn Ile Tyr Lys  
1 5 10 15  
Ser Pro Tyr Ser Gln Cys Asn Thr  
20

<210> 219  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 219  
Met Val Ile Phe Ile Ile Leu Leu Thr Cys Phe Gly Phe Ser Asn Gly  
1 5 10 15  
Ser Phe Ser Phe Ser Leu  
20

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<210> 220  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 220  
 Met Ser Pro Gly Arg Val Ser Val Val Ser Leu Gln Gly Ser Gln Leu  
           1                  5                  10                  15  
 Cys Leu Leu Val Ser Ile Ala Ile Met Gly Leu Leu Leu Phe  
                   20                  25                  30

<210> 221  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 221  
 Met Ser Gly Leu Glu Ser Ala Arg Val Leu Leu Cys Ala Leu Gly Ser  
           1                  5                  10                  15  
 Phe Leu Leu Asn Ser Leu Leu Ser Thr Phe Arg Leu Asn Ser Ser Ala  
                   20                  25                  30

Pro Ser

<210> 222  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 222  
 Met His Ser Ile Ile Val Lys Glu Leu Ile Val Thr Phe Phe Leu Gly  
           1                  5                  10                  15  
 Ile Thr Val Leu Leu Leu Leu Met Gln Arg Ser Leu  
                   20                  25

<210> 223  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 223  
 Met Lys Ser Val Ile Phe Ile Gln Ser Val Ile Leu Phe Phe Leu Pro  
           1                  5                  10                  15  
 Met Ser Gly Asp His Gln Gly Ile Ser Gly Leu Asp Glu Leu Pro Gln  
                   20                  25                  30

Ala

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<210> 230
<211> 50
<212> PRT
<213> Homo sapiens
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<400> 230
Met Ile Phe Leu Phe Phe Ile Leu Phe Glu Ile Ile Val Thr Leu Trp
  1             5             10             15

Leu Thr Pro Thr Tyr Pro Gln Ala Phe Ser Glu Leu Thr Ile Gln Ile
      20             25             30

Thr Ala Pro Phe Gly Ser Leu Pro Gln Gln Leu Tyr Leu His Met Ser
      35             40             45

Ile Ile
      50

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<210> 231
<211> 53
<212> PRT
<213> Homo sapiens
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<400> 231
Met Gln Leu Leu Cys Ser Pro Tyr Pro Glu Glu Lys Pro Lys Gly Ser
  1                    5                10              15

Asn Arg Asn Phe Cys Asn Trp Phe Leu Ser Glu Arg Ser Ser Cys Leu
      20                25              30

Gln Met Leu Leu Lys Gly His Lys Lys Leu Glu Leu Glu Lys Ile Asp
      35                40              45

Glu Ser Ala Gly Val
    50

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<210> 232
<211> 35
<212> PRT
<213> Homo sapiens
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<400> 232  
Met His Ile Thr Ser Leu Val Gly Ala Gly Thr Leu Met Val Leu Leu  
1 5 10 15  
Leu Leu Ile Leu Leu Leu Glu Cys Phe Phe Val Ala Glu Ala Leu Val  
20 25 30  
Met Arg Ser  
35

<210>	233
<211>	33
<212>	PRT

<213> Homo sapiens

<400> 233

Met Phe Phe Val Leu Leu Cys Phe Trp Leu Phe Pro Phe Ser Lys Asn  
1 5 10 15

Ser Pro Leu Trp Gly Met Leu Arg Ser Ser Phe Phe Ile Ser Ile Asn  
20 25 30

Leu

<210> 234

<211> 25

<212> PRT

<213> Homo sapiens

<400> 234

Met Ser Leu Ile Leu Leu Leu Ser Val Thr Leu Leu His Leu Ser Phe  
1 5 10 15

Ser Val Gly Phe Phe Leu Phe Arg Leu  
20 25

<210> 235

<211> 58

<212> PRT

<213> Homo sapiens

<400> 235

Met Ser Ser Phe Leu Arg Val Ile Phe Ile Pro Asn Ile Lys Val Ile  
1 5 10 15

Phe Leu Pro Pro Gly Thr Thr Ser Leu Ile His Thr Met Asp Gln Gly  
20 25 30

Val Ile Ala Ala Phe Lys Phe Tyr Tyr Leu Arg Arg Glu Asp Phe Cys  
35 40 45

Pro Val Pro Tyr Cys Ser Gly Gly Arg His  
50 55

<210> 236

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 236

Met Lys Pro Thr Leu Ser Lys Phe Leu Gly Thr Asp Ala Glu Leu Pro  
1 5 10 15

Lys Leu Tyr Pro Pro Ser Leu Gln Ala Pro Arg Gly Glu Thr Gln Leu  
20 25 30

Leu Gly Pro Gly Leu Glu Arg Pro Thr Arg Glu Gly Arg Val Glu Gln  
35 40 45

Met Leu Phe Asn Gln Lys Ser Val Ser Trp Gly Ser Gln Leu Pro Gln  
50 55 60

Ser Xaa Asn Thr Phe Leu Lys Asn Xaa Asp Pro  
65 70 75

<210> 237

<211> 42

<212> PRT

<213> Homo sapiens

<400> 237

Met His Ala Leu Ser Tyr Thr His Leu Ser Leu Leu Ser Leu Phe Leu  
1 5 10 15

Phe Leu Pro Pro Ser Phe Leu Tyr Tyr Asn Leu Val Ile Leu Phe Phe  
20 25 30

Glu Ala Phe Gln Asn Ile Ser His Leu Ser  
35 40

<210> 238

<211> 40

<212> PRT

<213> Homo sapiens

<400> 238

Met Trp Val Gln Leu Ile Phe Phe Phe Val Gln Tyr Gly Asp Ser Leu  
1 5 10 15

Thr Ser Ala Phe Phe Pro Phe Ser Ser Asn Phe Ser Leu Gln Asn Ser  
20 25 30

Gly Phe Ser Met His Lys Leu Lys  
35 40

<210> 239

<211> 38

<212> PRT

<213> Homo sapiens

<400> 239

Met Thr Ser Leu Pro Ile Leu Ala Phe Gly Ala Val Tyr Trp Pro Asp

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117  
1 5 10 15  
Leu Ala Ser His Ser Phe Ser Pro Ser Arg Ser Leu Ala Gln Thr Pro  
20 25 30

His Met Ser Val Ser Gly  
35

<210> 240  
<211> 47  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 240  
Met Thr Pro Trp Leu Leu Ile Leu Val Ser Xaa Gly Phe Leu Lys Ser  
1 5 10 15

Ile Ser Asp Pro Gln Phe Gln Glu Leu Ser Ile Asn Ile Ala Ser Cys  
20 25 30

His Pro Gly Thr Val Met Pro Tyr Ser Gly Thr Ser His Leu Lys  
35 40 45

<210> 241  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 241  
Met Thr Gly Thr Pro Ala Trp Ala His Leu Leu Leu Leu Leu Leu  
1 5 10 15

Gly Ser Ala Pro Gln Thr Arg Leu Trp Pro Pro Ser Gln Cys Pro Val  
20 25 30

Thr Ser Pro Glu  
35

<210> 242  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 242  
Met Val Leu Gln Asn Thr Asn Thr Leu Leu Ile Val Ser Ala Phe Leu  
1 5 10 15

Leu Ser Met Leu Phe Phe Lys Phe Ser Ile Ala Ile Phe Leu Val Thr  
20 25 30

Asn Leu Ser Phe Glu Arg Ser Asn Leu Leu Leu Gly Pro Ser Ser Asp  
35 40 45

Leu Phe Leu Asn Phe Lys  
50

<210> 243

<211> 36

<212> PRT

<213> Homo sapiens

<400> 243

Met Tyr Glu Val Asp Lys Lys Ile Tyr Ser Asn Phe Ile Gln Ile Leu  
1 5 10 15

Ile Val Ile Ile Phe Val Leu Tyr Leu Ile Ile Asn Gln Asn Thr Phe  
20 25 30

Ala Phe Leu Ser  
35

<210> 244

<211> 42

<212> PRT

<213> Homo sapiens

<400> 244

Met Cys Ile Leu Pro Leu Met Leu Thr Tyr Pro Ile Leu Pro Lys Val  
1 5 10 15

Val Gly Asn Asn Ile Leu Leu Gly Asp Ser Gly Leu Thr Ser Leu Val  
20 25 30

Ile Pro Leu Ser Val Val Phe Asn Leu Lys  
35 40

<210> 245

<211> 23

<212> PRT

<213> Homo sapiens

<400> 245

Met Asn Phe Leu Leu Leu Ile Phe Pro Tyr Phe Ser Ser Leu Leu Gly  
1 5 10 15

Glu Val Glu Val Val Lys Cys  
20

<210> 246

<211> 66

<212> PRT

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 246

Met	Thr	Trp	Lys	Gly	Trp	Ser	Arg	Thr	Arg	Ile	Trp	Lys	Pro	Ser	Leu
1				5					10					15	
Pro	Gln	Leu	Phe	Thr	Met	Tyr	Leu	Leu	Ala	Gln	Ile	Arg	Ala	Ala	Ser
			20					25						30	
Arg	Ala	Ser	Glu	Asp	Ser	Cys	Ser	Tyr	Ser	Ser	Asp	Thr	Met	Trp	Pro
		35					40					45			
Gln	Ser	Gly	Asn	Ser	Ser	Thr	Phe	Ala	Phe	Phe	Arg	Pro	Arg	Xaa	Lys
	50					55					60				
Met	Arg														
65															

&lt;210&gt; 247

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 247

Met	Trp	His	Leu	Ser	Phe	His	Cys	Leu	Leu	Leu	Leu	Leu	Pro	Leu	Cys
1				5					10					15	
Glu	Val	Thr	His	Ser	Leu	Phe	Ala	Phe	Tyr	His	Asn	Trp	Lys	Leu	Phe
			20					25					30		
Glu	Ala	Ser	Leu	Glu	Thr	Glu	Ala	Ala	Met	Leu	Pro	Val	Gln	Pro	Ala
		35					40					45			
Glu	Pro	Arg	Ala	Asn											
50															

&lt;210&gt; 248

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 248

Met	Val	Ser	Leu	Asn	Leu	Ser	Leu	Pro	Asn	Asn	Ile	Ile	Ser	Leu	Val
1				5					10					15	
Phe	Phe	Phe	Leu	Leu	Gln	Pro	Val	Gln	Lys	Gly	Val	Ser	Gly	Gly	
			20					25					30		

&lt;210&gt; 249

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

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Gly Glu Val Gly Pro Ile Gly Pro Pro Gly Pro Lys Gly Asp Xaa  
 115 120 125

<210> 252  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (136)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (138)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 252  
 Met Cys Ala Phe Pro Trp Leu Leu Leu Leu Leu Leu Gln Glu Gly  
 1 5 10 15  
 Ser Gln Arg Arg Leu Trp Arg Trp Cys Gly Ser Glu Glu Val Val Ala  
 20 25 30  
 Val Leu Gln Glu Ser Ile Ser Leu Pro Leu Glu Ile Pro Pro Asp Glu  
 35 40 45  
 Glu Val Glu Asn Ile Ile Trp Ser Ser His Lys Ser Leu Ala Thr Val  
 50 55 60  
 Val Pro Gly Lys Glu Gly His Pro Ala Thr Ile Met Val Thr Asn Pro  
 65 70 75 80  
 His Tyr Gln Gly Gln Val Ser Phe Leu Asp Pro Xaa Tyr Ser Leu His  
 85 90 95  
 Ile Ser Asn Leu Ser Trp Glu Asp Ser Gly Leu Tyr Gln Ala Gln Val  
 100 105 110  
 Asn Leu Arg Thr Ser Gln Ile Ser Thr Met Gln Gln Tyr Asn Leu Cys  
 115 120 125  
 Val Tyr Arg Trp Leu Ser Glu Xaa Pro Xaa His Cys Glu Leu  
 130 135 140

<210> 253  
 <211> 222  
 <212> PRT  
 <213> Homo sapiens

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&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (86)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 253

Met	His	Phe	Gln	Arg	Gln	Lys	Leu	Met	Ala	Val	Thr	Glu	Tyr	Ile	Pro
1					5				10					15	
Pro	Lys	Pro	Ala	Ile	His	Pro	Ser	Cys	Leu	Pro	Ser	Pro	Pro	Ser	Pro
			20					25					30		
Pro	Gln	Glu	Glu	Ile	Gly	Leu	Ile	Arg	Leu	Leu	Arg	Arg	Glu	Ile	Ala
		35					40					45			
Ala	Val	Phe	Gln	Asp	Asn	Arg	Met	Ile	Ala	Val	Cys	Gln	Asn	Val	Ala
	50					55					60				
Leu	Ser	Ala	Glu	Asp	Lys	Leu	Leu	Met	Arg	His	Gln	Leu	Arg	Lys	His
65					70					75					80
Lys	Ile	Leu	Met	Lys	Xaa	Phe	Pro	Asn	Gln	Val	Leu	Lys	Pro	Phe	Leu
				85					90					95	
Glu	Asp	Ser	Lys	Tyr	Gln	Asn	Leu	Leu	Pro	Leu	Phe	Val	Gly	His	Asn
			100					105					110		
Met	Leu	Leu	Val	Ser	Glu	Glu	Pro	Lys	Val	Lys	Glu	Met	Val	Arg	Ile
	115						120					125			
Leu	Arg	Thr	Val	Pro	Phe	Leu	Pro	Leu	Leu	Gly	Gly	Cys	Ile	Asp	Asp
130						135					140				
Thr	Ile	Leu	Ser	Arg	Gln	Gly	Phe	Ile	Asn	Tyr	Ser	Lys	Leu	Pro	Ser
145					150					155					160
Leu	Pro	Leu	Val	Gln	Gly	Glu	Leu	Val	Gly	Gly	Leu	Thr	Cys	Leu	Thr
				165					170					175	
Ala	Gln	Thr	His	Ser	Leu	Leu	Gln	His	Gln	Pro	Leu	Gln	Leu	Thr	Thr
			180					185					190		
Leu	Leu	Asp	Gln	Tyr	Ile	Arg	Glu	Gln	Arg	Glu	Lys	Asp	Ser	Val	Met
		195					200					205			
Ser	Ala	Asn	Gly	Lys	Pro	Asp	Pro	Asp	Thr	Val	Pro	Asp	Ser		
	210					215					220				

&lt;210&gt; 254

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 254

Met	Met	Asn	Ile	Leu	Leu	Leu	Lys	Tyr	Ile	Leu	Glu	Ile	Leu	Ile	Leu
1				5					10					15	
Ser	Glu	Asn	Leu	Asn	Leu	Phe	Asn	Ile	Thr	Tyr	Gly	Lys	Tyr	Asn	Leu
		20					25						30		



Ile Pro Leu Arg Gln Arg Leu Glu Glu Arg Gln Arg Arg Arg Lys Gln  
                   20                                  25                                  30  
 Gly Ala Gly Ser Leu Gln Glu Leu Ala Pro Gln Asp Gly Ser Gly Tyr  
                   35                                  40                                  45  
 Met Asp Val Gly Val Ser Gln Lys Ala Arg Gly Glu Xaa Val Pro Asp  
           50                                  55                                  60  
 Pro Gln Gly Gly Gly Gln Leu Ser Trp Asp Arg Pro Pro Ala Pro Arg  
   65                                  70                                  75                                  80  
 Pro Pro Ala Tyr Asn Arg Ala Leu Gln Gly Asp Pro Ser Phe Val Leu  
                                   85                                  90                                  95  
 Gln Ile Ala Glu Lys Glu Gln Glu Leu Leu Ala Ser Gln Glu Thr Val  
                   100                                  105                                  110  
 Gln Val Leu Gln Met Lys Val Arg Arg Leu Glu His Leu Leu Gln Leu  
           115                                  120                                  125  
 Lys Asn Val Arg Ile Glu Asn Leu Ser Arg Arg Leu Gln Xaa Ala Glu  
   130                                  135                                  140  
 Arg Lys Gln Arg  
 145

<210> 258  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 258  
 Met Ser Ile Thr Ser Asn Thr Tyr Phe Phe Leu Leu Gly Ala Phe Lys  
   1                                  5                                  10                                  15  
 Ile Leu Ser Ser Ser Tyr Trp Lys Ile His Thr Lys Leu Leu Leu Thr  
                   20                                  25                                  30  
 Ile Val Pro Leu Gln Cys Cys Gly Met Pro Gln Leu Ile Pro Pro Leu  
           35                                  40                                  45  
 Gln Leu  
   50

<210> 259  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 259  
 Met Tyr Ile Phe His Phe Val Phe Leu Ile Gly Tyr Ala Met Cys Gly  
   1                                  5                                  10                                  15  
 Ile Gln Val Thr Asn Val Thr Leu Ala Ser Gly Pro Ser Asn Leu His  
           20                                  25                                  30





1                      5                      10

Pro Leu Phe Thr Leu Ala Leu Leu Lys Met Gln Ile Pro Gly Leu Arg  
20 25 30









Asn Val Val Ser Leu Val Asp Ile Tyr Pro Thr Met Leu Asp Ile Ala  
355 360 365

Gly Ile Pro Leu Pro Gln Asn Leu Ser Gly Tyr Ser Ser Leu Pro Leu  
370 375 380

Ser Ser Glu Thr Phe Lys Asn Glu His Lys Val Lys Asn Leu His Pro  
385 390 395 400

Pro Trp Ile Thr Glu  
405

<210> 273

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 273

Met Phe Leu Thr Ile Ile Val Cys Gly Met Val Ala Ala Leu Ser Ala  
1 5 10 15

Ile Arg Ala Asn Cys His Gln Glu Pro Ser Val Cys Leu Gln Ala Ala  
20 25 30

Cys Pro Glu Ser Trp Ile Gly Phe Gln Arg Lys Cys Phe Tyr Phe Ser  
35 40 45

Asp Asp Thr Lys Asn Trp Thr Ser Ser Gln Arg Phe Cys Asp Ser Gln  
50 55 60

Asp Ala Asp Leu Ala Gln Val Glu Xaa Phe Gln Glu Leu Xaa Arg Lys  
65 70 75 80

<210> 274

<211> 14

<212> PRT

<213> Homo sapiens

<400> 274

Ala Ser Ser Leu Leu Val Ser Leu Gln Cys Leu Leu Gln Leu  
1 5 10

<210> 275  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 275  
 Met Leu Pro Ile His Leu Gln Trp Ala Cys Ala Phe Arg Ser Phe Leu  
           1                  5                  10                  15  
 Leu Gly Ile Asp Ser Ser Met Phe Val Leu Phe Gln His Pro Arg Leu  
                   20                  25                  30  
 Lys Asp Thr Lys Ser Ser Arg Val Ile Glu Pro Thr Leu Thr Asn  
           35                  40                  45

<210> 276  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 276  
 Met Ile Val Ile Thr Ser Ile Leu Ser Ser Leu Ala Ser Leu Leu Leu  
           1                  5                  10                  15  
 Leu Ala Phe Leu Ala Ala Ser Thr Ala Arg Leu Ser Pro Gln Ser Leu  
                   20                  25                  30  
 Pro Glu Thr  
           35

<210> 277  
 <211> 281  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (199)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (227)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (276)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 277  
 Met Gly Phe Pro Gln Arg Gln Pro Gly Leu Ser Gly Leu Leu Leu Leu



133

1	5	10	15
Val Trp Ala Leu Ala Trp Pro Leu Pro Cys Met Ser Leu Glu Leu Ile	20	25	30
Pro Tyr Thr Pro Gln Ile Thr Ala Trp Asp Leu Glu Gly Lys Val Thr	35	40	45
Ala Thr Thr Phe Ser Leu Glu Gln Pro Arg Cys Val Leu Asp Gly Leu	50	55	60
Xaa Gly Val Ala Ser Thr Ile Trp Leu Val Val Ala Phe Ser Asn Ala	65	70	75
Ser Arg Asp Phe Gln Asn Pro Gln Thr Arg Ala Glu Ile Pro Ala Phe	85	90	95
Pro Arg Leu Leu Thr Glu Gly His Tyr Met Thr Leu Pro Leu Ser Leu	100	105	110
Asp Gln Leu Pro Cys Gln Asp Pro Ala Gly Gly Gly Arg Asp Val Pro	115	120	125
Leu Leu Arg Val Gly Asn Asp Pro Gly Cys Leu Ala Asp Leu Leu Gln	130	135	140
Pro Pro Tyr Cys Asn Ser Pro Leu Pro Ser Pro Gly Pro Tyr Arg Val	145	150	155
Lys Phe Leu Leu Met Asp Ala Arg Gly Ser Pro Gln Ala Glu Thr Arg	165	170	175
Trp Ser Asp Pro Ile Ala Leu His Gln Gly Lys Ser Pro Ala Ser Ile	180	185	190
Asp Thr Trp Pro Gly Arg Xaa Ser Gly Gly Met Ile Val Ile Thr Ser	195	200	205
Ile Leu Ser Ser Leu Ala Ser Leu Leu Leu Leu Ala Phe Leu Ala Ala	210	215	220
Ser Thr Xaa Arg Phe Ser Ser Leu Trp Trp Pro Glu Glu Ala Pro Glu	225	230	235
Gln Leu Arg Ile Gly Ser Phe Met Gly Lys Arg Tyr Met Thr His His	245	250	255
Ile Pro Pro Ser Glu Ala Ala Thr Leu Pro Val Gly Cys Glu Pro Gly	260	265	270
Leu Asp Pro Xaa Pro Ser Leu Ser Pro	275	280	

<210> 278

<211> 45

<212> PRT

<213> Homo sapiens

<400> 278

Met	Pro	Arg	Arg	Ser	Arg	Pro	Cys	Thr	Leu	Cys	Leu	Thr	Leu	Leu	Arg
1				5					10					15	
Arg	Ala	Leu	Ser	Ser	His	Leu	Pro	Ser	Ala	Cys	Gln	Ser	Pro	Arg	Arg
			20					25					30		
Arg	Val	Gln	Gly	Gln	Val	Leu	Lys	Arg	Leu	Lys	Pro	Leu			
		35					40					45			

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<400> 279
Met Ser Arg Arg Glu Asn Lys Phe Leu Leu
  1                      5                10
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<400> 280  
Met Pro Leu Thr Leu Pro Ser Arg Leu Ala Gly Gly Asn Val Phe Leu  
   1                   5                   10                   15  
  
Ile Ile Phe Thr Pro Gly Phe Cys Pro Gly Arg Val Asn Val Glu Ile  
          20                   25                   30  
  
Pro Gln Arg Met Leu Asp Glu  
      35
```

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<400> 281
Asp Trp Gly Phe Gln Thr Thr Phe Phe Ser Leu Gly Leu Tyr Leu Phe
   1                               10                      15
Thr Ile Trp Trp Ser Thr Val Gly Leu Pro Trp Thr Ser Ser Thr Gln
          20                        25                  30
Arg Glu Leu Asp Met Lys Leu Glu Ala Ala Ala Leu Glu Gly Lys Phe
        35                          40                    45
Arg Leu Thr Trp Thr Ala Gln Ala Met Ala Gly Arg Ile Pro Ser Ser
   50                            55                      60
Trp Gly Pro
    65
```



<210> 285  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 285  
 Met Ile His Leu Ser Arg Phe Tyr Leu Leu Leu Ile Met Leu Pro His  
           1                  5                  10                  15  
 Val Leu Phe Phe Thr Gly Asp Leu His Ser  
                   20                  25

<210> 286  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 286  
 Met Tyr Lys Cys Trp Tyr Arg  
           1                  5

<210> 287  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 287  
 Met Xaa Leu Asn Lys Thr Lys Ser Leu Thr Leu Leu Glu Leu Val Phe  
           1                  5                  10                  15  
 Leu Pro Gly Glu Thr Val Ser Lys Pro Ser Thr Lys  
                   20                  25

<210> 288  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 288  
 Met His Arg Leu Trp Ile Gly Pro Ala Phe Phe Leu Met Thr Ser Leu  
           1                  5                  10                  15  
 Ser Val Ser Gly Ala Val Ile Pro Arg Asn Gly Gly Pro Gly Gly Val  
                   20                  25                  30

Pro Gly Lys Trp Arg Cys Ala Thr Ile Cys Ser Thr Thr Pro His Cys

138  
85 90 95  
Pro Arg Pro Cys Arg Pro Pro Ala His Arg Leu His Cys His Asp Leu  
100 105 110  
Glu Ala Asp Arg Arg Pro Leu Ala Pro Arg  
115 120

<210> 292  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 292  
Arg Ala Thr Gln Gly Ala Gly His Gly Ser Ser Asp Glu Glu Asn Glu  
1 5 10 15  
Asp Gly Asp Phe Thr Val Tyr Glu Cys Pro Gly Met Ala Pro Thr Gly  
20 25 30  
Glu Met Glu Val Arg Asn His Leu Phe Asp His Ala Ala Leu Ser Ala  
35 40 45  
Pro Leu Pro Ala Pro Ser Ser Pro Leu Ala Leu Pro  
50 55 60

<210> 293  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 293  
Lys Ala Glu Tyr Ala Thr Ala Lys Ala Leu Ala Thr Pro Ala Ala Thr  
1 5 10 15  
Pro Asp Leu Ala Trp Gly Pro Ala Pro Gly Thr Glu Arg Gly Asp Val  
20 25 30  
Pro Leu Pro Ala Pro Thr Ala Thr Asp Val Val Pro Gly Ala Ala  
35 40 45

<210> 294  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 294  
Ser Ala Glu Met Tyr His Tyr Gln His Gln Arg Gln Gln Met Leu  
1 5 10 15

<210> 295  
<211> 11  
<212> PRT

<213> Homo sapiens

<400> 295

Leu Glu Arg His Lys Glu Pro Pro Lys Glu Leu  
1 5 10

<210> 296

<211> 12

<212> PRT

<213> Homo sapiens

<400> 296

Ala Lys Cys Pro Pro Gly Ala His Ala Cys Gly Pro  
1 5 10

<210> 297

<211> 9

<212> PRT

<213> Homo sapiens

<400> 297

Pro Val His Met Ser Pro Leu Glu Pro  
1 5

<210> 298

<211> 12

<212> PRT

<213> Homo sapiens

<400> 298

Trp Cys Arg Leu Gln Arg Glu Ile Arg Leu Thr Gln  
1 5 10

<210> 299

<211> 18

<212> PRT

<213> Homo sapiens

<400> 299

Ser Ser Asp Glu Glu Asn Glu Asp Gly Asp Phe Thr Val Tyr Glu Cys  
1 5 10 15

Pro Gly

<210> 300

<211> 10

<212> PRT

<213> Homo sapiens

<400> 300

A.

23

54

23

54

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2

2

23

22

54



**00000000000000000000000000000000**





<210> 306  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 306  
 Asp Ser His Gln Ala Arg Ser Arg Arg Leu Glu Ala Leu Trp Ser Pro  
   1                  5                  10                  15  
 Ser Leu Gly Glu Val Ser Ser Ser Thr  
                   20                  25

<210> 307  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 307  
 Cys Arg Trp Arg Pro Glu Ser Ala Ala Pro Cys  
   1                  5                  10

<210> 308  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 308  
 Thr Arg Pro Gly Arg Gly Ala Gln Ala Pro Val Lys  
   1                  5                  10

<210> 309  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 309  
 Met Val Ser Trp Met Ile Ser Arg Ala Val Val Leu Val Phe Gly Met  
   1                  5                  10                  15  
 Leu Tyr Pro Ala Tyr  
                   20

<210> 310  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 310  
 Gly Met Leu Tyr Pro Ala Tyr Tyr Ser Tyr Lys Ala Val Lys Thr Lys  
   1                  5                  10                  15

Asn

<210> 311  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 311  
 Glu Tyr Val Arg Trp Met Met Tyr Trp Ile Val Phe Ala Leu Tyr Thr  
           1                  5                  10                  15

Val

<210> 312  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 312  
 Tyr Pro Ala Tyr Tyr Ser Tyr Lys Ala Val Lys Thr Lys Asn Val Lys  
           1                  5                  10                  15

Glu

<210> 313  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 313  
 Val Ala Trp Phe Pro Leu Tyr Tyr Glu Leu Lys Ile Ala  
           1                  5                  10

<210> 314  
 <211> 186  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (181)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 314  
 Met Val Ser Trp Met Ile Ser Arg Ala Val Val Leu Val Phe Gly Met  
           1                  5                  10                  15

Leu Tyr Pro Ala Tyr Tyr Ser Tyr Lys Ala Val Lys Thr Lys Asn Val  
                   20                  25                  30

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144

Lys Glu Tyr Val Arg Trp Met Met Tyr Trp Ile Val Phe Ala Leu Tyr  
35 40 45

Thr Val Ile Glu Thr Val Ala Asp Gln Thr Val Ala Trp Phe Pro Leu  
50 55 60

Tyr Tyr Glu Leu Lys Ile Ala Phe Val Ile Trp Leu Leu Ser Pro Tyr  
65 70 75 80

Thr Lys Gly Ala Ser Leu Ile Tyr Arg Lys Phe Leu His Pro Leu Leu  
85 90 95

Ser Ser Lys Glu Arg Glu Ile Asp Asp Tyr Ile Val Gln Ala Lys Glu  
100 105 110

Arg Gly Tyr Glu Thr Met Val Asn Phe Gly Arg Gln Gly Leu Asn Leu  
115 120 125

Ala Ala Thr Ala Ala Val Thr Ala Ala Val Lys Ser Gln Gly Ala Ile  
130 135 140

Thr Glu Arg Leu Arg Ser Phe Ser Met His Asp Leu Thr Thr Ile Gln  
145 150 155 160

Gly Asp Glu Pro Val Gly Gln Arg Pro Tyr Gln Pro Leu Pro Glu Ala  
165 170 175

Lys Lys Lys Ser Xaa Gln Pro Pro Val Asn  
180 185

<210> 315  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 315  
Ile Thr Leu Cys Leu Val Cys Ile Val Ala Asn Ala  
1 5 10

<210> 316  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 316  
Met Ala Ile Pro Ala Phe Ser Ser Cys Gln Gln Ile Ser Ser Ala Ala  
1 5 10 15

Ala Leu Gln Ile  
20

<210> 317  
<211> 14  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 317

Cys Asn Gly Pro Phe Lys His Phe Ser Phe Thr Val Ser Thr  
 1 5 10

&lt;210&gt; 318

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 318

Arg Ser Cys Lys Glu Ile Lys Asp  
 1 5

&lt;210&gt; 319

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 319

Gly Gly Gly Trp Thr Leu Val Ala Ser Val His Glu Asn  
 1 5 10

&lt;210&gt; 320

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 320

Ala Asp Tyr Pro Glu Gly Asp Gly Asn Trp Ala Asn Tyr Asn Thr Phe  
 1 5 10 15

Gly Ser Ala

&lt;210&gt; 321

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 321

Ala Thr Ser Asp Asp Tyr Lys Asn Pro Gly Tyr Tyr Asp Ile  
 1 5 10

&lt;210&gt; 322

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 322

Cys Ile Gly Gly Gly Tyr Phe Pro Glu Ala

```
<210> 323
<211> 11
<212> PRT
<213> Homo sapiens
```

```
<210> 324
<211> 6
<212> PRT
<213> Homo sapiens
```

```
<210> 325
<211> 8
<212> PRT
<213> Homo sapiens
```

```
<210> 326
<211> 57
<212> PRT
<213> Homo sapiens
```

Ala Asp Pro Leu Lys Asn Lys Ala Leu  
50 55

```
<210> 327
<211> 76
<212> PRT
<213> Homo sapiens
```

&lt;400&gt; 327

Leu Leu Leu Thr Ser Pro Leu Pro Arg Cys Pro Pro Ala Cys Ser His  
 1 5 10 15

Asp Ala Pro Ala His Pro Asp Pro Gly Gly Pro His Gly Leu Thr Ser  
 20 25 30

Gly Pro Gly Leu Gly Leu Pro Arg Val Cys Leu Gln Arg Arg Gln Leu  
 35 40 45

Leu Gln Pro His Ala Leu Pro Gly Tyr Gly Cys Leu Leu His Asp His  
 50 55 60

Ala His Leu Leu His Pro His Gln Asp Glu Gly Gln  
 65 70 75

&lt;210&gt; 328

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 328

Trp Leu Leu Gln Ala Arg Val His His Leu Leu Leu Pro Val Arg Pro  
 1 5 10 15

Leu Gln Arg His Arg Pro Cys His Pro Gly His Pro Gly Pro Gly Pro  
 20 25 30

His Pro Pro Gly His Pro Leu Gly Ser Pro Leu Lys Pro Pro Arg Gln  
 35 40 45

Thr His Ser Arg Thr Lys Leu Ser  
 50 55

&lt;210&gt; 329

&lt;211&gt; 300

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 329

Lys His Glu Xaa His Gln Val Ser Asp Gly Ala Leu Arg Cys Phe Ala  
 1 5 10 15

Ser Leu Ala Asp Arg Phe Thr Arg Arg Gly Val Asp Pro Ala Pro Leu  
 20 25 30

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Ala	Lys	His	Gly	Leu	Thr	Glu	Glu	Leu	Leu	Ser	Arg	Met	Ala	Ala	Ala		
		35					40					45					
Gly	Gly	Thr	Val	Ser	Gly	Pro	Ser	Ser	Ala	Cys	Lys	Pro	Xaa	Arg	Ser		
	50					55					60						
Thr	Thr	Gly	Ala	Pro	Ser	Thr	Thr	Ala	Asp	Ser	Lys	Leu	Ser	Asn	Gln		
65					70					75					80		
Val	Ser	Thr	Ile	Val	Ser	Leu	Leu	Ser	Thr	Leu	Cys	Arg	Gly	Ser	Pro		
			85						90						95		
Val	Val	Thr	His	Asp	Leu	Leu	Arg	Ser	Glu	Leu	Pro	Asp	Ser	Ile	Glu		
			100					105						110			
Ser	Ala	Leu	Gln	Gly	Asp	Glu	Arg	Cys	Val	Leu	Asp	Thr	Met	Arg	Leu		
		115					120					125					
Val	Asp	Phe	Leu	Leu	Val	Leu	Leu	Phe	Glu	Gly	Arg	Lys	Ala	Leu	Pro		
	130					135						140					
Lys	Ser	Ser	Ala	Gly	Ser	Thr	Gly	Arg	Ile	Pro	Gly	Leu	Arg	Arg	Leu		
145					150					155					160		
Asp	Ser	Ser	Gly	Glu	Arg	Ser	His	Arg	Gln	Leu	Ile	Asp	Cys	Ile	Arg		
			165						170					175			
Ser	Lys	Asp	Thr	Asp	Ala	Leu	Ile	Asp	Ala	Ile	Asp	Thr	Gly	Ala	Phe		
			180					185						190			
Glu	Val	Asn	Phe	Met	Asp	Asp	Val	Gly	Gln	Thr	Leu	Leu	Asn	Trp	Ala		
		195					200						205				
Ser	Ala	Phe	Gly	Thr	Gln	Glu	Met	Val	Glu	Phe	Leu	Cys	Glu	Arg	Gly		
	210					215					220						
Ala	Asp	Val	Asn	Arg	Gly	Gln	Arg	Ser	Ser	Ser	Leu	His	Tyr	Ala	Ala		
225					230					235					240		
Cys	Phe	Gly	Arg	Pro	Gln	Val	Ala	Lys	Thr	Leu	Leu	Arg	His	Gly	Ala		
			245						250					255			
Asn	Pro	Asp	Leu	Arg	Asp	Glu	Asp	Gly	Lys	Thr	Pro	Leu	Asp	Lys	Ala		
			260					265					270				
Arg	Glu	Arg	Gly	His	Ser	Glu	Val	Val	Ala	Ile	Leu	Gln	Ser	Pro	Gly		
		275					280					285					
Asp	Trp	Met	Cys	Pro	Val	Asn	Lys	Gly	Asp	Asp	Lys						
	290					295					300						

<210> 330

<211> 17

<212> PRT

<213> Homo sapiens

<400> 330

Pro	Leu	Asp	Lys	Ala	Arg	Glu	Arg	Gly	His	Ser	Glu	Val	Val	Ala	Ile		
1				5				10						15			



Leu

<210> 331  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 331  
 Ala Lys Thr Leu Leu Arg His Gly Ala Asn Pro Asp Leu Arg Asp  
           1                  5                  10                  15

<210> 332  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 332  
 Gly Arg Gly Arg Ala Trp Leu Cys Arg Arg Pro Val Gly Ser Trp Ile  
           1                  5                  10                  15

Gly Ala Val Trp Asn Asp Lys Pro Asp Lys Glu Thr Phe Lys Lys Pro  
                   20                  25                  30

Trp Gln Met Trp Thr Gln Ile His Cys Trp Asn Gly Tyr Arg Trp Asp  
           35                  40                  45

Xaa Xaa Asp Xaa Lys Asp  
           50

<210> 333  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 333  
 Ser Trp Ile Gly Ala Val Trp Asn Asp Lys Pro Asp Lys Glu Thr Phe  
           1                  5                  10                  15

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Lys Lys Pro Trp Gln Met Trp  
20

<210> 334  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 334  
Lys Thr Met Ala Asp Val Asp Pro Asp Thr Leu Leu Glu Trp Leu Gln  
1 5 10 15

Met Gly Xaa Gly Arg Xaa Lys Gly His Ala Thr Asn Thr Pro  
20 25 30

<210> 335  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 335  
Arg Gly Val Asp Pro Ala Pro Leu Ala Lys His Gly Leu Thr Glu Glu  
1 5 10 15

Leu Leu Ser Arg Met Ala Ala Ala Gly Gly Thr Val Ser Gly Pro Ser  
20 25 30

Ser Ala

<210> 336  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 336  
Arg Ser Thr Thr Gly Ala Pro Ser Thr Thr Ala Asp Ser Lys Leu Ser  
1 5 10 15

Asn Gln Val Ser Thr Ile Val Ser Leu Leu Ser Thr Leu Cys Arg  
20 25 30

<210> 337



$\langle 222 \rangle$  (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 340

Ala Cys Met Asn Pro Ala Met Cys Phe Val Cys Ala Cys Pro His Thr  
1 5 10 15

Gly Ser Thr Pro Glu Lys Ala Ile Leu Gln Gly Arg Leu Ile Ser Leu  
20 25 30

Gly Thr Ser Leu Ser Pro Ala Ser Asn Gly Ser Gly Gln Gln Ser Phe  
35 40 45

Ser Ile Cys Met Ile Asn Pro Ser Leu Pro Xaa Ser Thr Ser Ser His  
50 55 60

His Leu Phe Ser Val Leu Thr Gly Asp Leu Asp Ser Tyr Ser Gln Arg  
65 70 75 80

Lys Leu Lys Pro Thr Ser Arg Lys Ser Phe Leu Leu Pro Lys Thr Gln  
85 90 95

Thr Tyr Xaa Val Xaa His Pro Ser Ser Pro Pro Leu Val Leu Val Gln  
100 105 110

His Arg Ser Pro Leu Ser Thr Tyr Pro Lys Pro Val Pro Ser Cys Cys  
115 120 125

Ala Leu Asp Leu Ile Ser Val Ile Ala Leu Glu Thr Phe Leu Val Tyr  
130 135 140

Ile	His	Leu	Phe	Pro	Ser	Ile	Asp	Leu	Ser	Tyr	Trp	Ile	Leu	Ser	Met
145					150					155					160

Leu Gln Pro Leu Leu Leu Ile Lys Gln Gln Ser Thr Lys Thr Leu Ser  
165 170 175

Leu Asn Cys Met Leu Tyr Ser Ser Tyr Tyr Leu Ile Ser Phe Leu Ser  
180 185 190

Phe Lys Ala Lys Val Leu Arg Arg Gly Gly Asn Ile Leu His His Phe  
195 200 205

Phe Thr Ser Tyr Ser Phe Phe Asn Thr Tyr  
210 215

<210> 341

<211> 28

&lt;212&gt; PRT

<213> Homo sapiens

<400> 341

Cys Pro His Thr Gly Ser Thr Pro Glu Lys Ala Ile Leu Gln Gly Arg  
1 5 10 15

Leu Ile Ser Leu Gly Thr Ser Leu Ser Pro Ala Ser  
20 25





<210> 350  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 350  
 Glu Thr Glu Ser Pro Tyr Gln Glu Leu Gln Gly Gln Arg Ser Asp Val  
           1                  5                  10                  15  
 Tyr Ser Asp Leu Asn Thr  
                   20

<210> 351  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 351  
 Leu Val Cys Tyr Cys Ser Thr Lys Lys Glu Lys Lys Leu His Glu Ile  
           1                  5                  10                  15  
 Ala Ile Gln Gln Gly Gln Asn Trp Arg Trp Leu Leu Phe Tyr Lys Glu  
                   20                  25                  30  
 Ile Ser Val Pro Gly Phe Gln Ser Val Trp Cys Ser Tyr Lys Cys Leu  
                   35                  40                  45  
 Cys Val Val Trp Lys Ala Gly Glu Gly Gly  
           50                  55

<210> 352  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 352  
 Arg Arg Ser Cys Ser Gly Pro Pro Leu Val Asn Thr Ala Gly Lys Ile  
           1                  5                  10                  15  
 Leu Ser Ser Ser Pro Ala Lys Leu Ala Cys Lys Arg Thr Asp Phe His  
                   20                  25                  30  
 Ile Pro Ser Ile  
                   35

<210> 353  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 353  
 Arg Ala Ser Ile Leu Gly Ile Asp Asn Glu Arg Gly Cys His Phe Arg  
           1                  5                  10                  15

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156

His Phe Asn Pro Leu Lys Glu Tyr Lys Arg Lys Lys Lys Glu Asn Lys  
20 25 30

Ser Phe Arg Ile Val  
35

<210> 354

<211> 77

<212> PRT

<213> Homo sapiens

<400> 354

Ser Lys Asn Lys Thr Arg Gly Gly Asp Trp Cys Val Thr Val Leu Arg  
1 5 10 15

Lys Arg Arg Lys Ser Phe Met Lys Ser Pro Phe Ser Lys Asp Arg Thr  
20 25 30

Gly Asp Gly Phe Ser Phe Thr Lys Lys Ser Leu Ser Gln Ala Phe Ser  
35 40 45

Leu Phe Gly Val His Thr Ser Val Cys Val Leu Cys Gly Arg Arg Gly  
50 55 60

Lys Ala Gly Glu Gly Gly Pro Val Gln Gly Pro Leu Trp  
65 70 75

<210> 355

<211> 55

<212> PRT

<213> Homo sapiens

<400> 355

Met Lys Ser Pro Phe Ser Lys Asp Arg Thr Gly Asp Gly Phe Ser Phe  
1 5 10 15

Thr Lys Lys Ser Leu Ser Gln Ala Phe Ser Leu Phe Gly Val His Thr  
20 25 30

Ser Val Cys Val Leu Cys Gly Arg Arg Gly Lys Ala Gly Glu Gly Gly  
35 40 45

Pro Val Gln Gly Pro Leu Trp  
50 55

<210> 356

<211> 154

<212> PRT

<213> Homo sapiens

<400> 356

Met Gly Lys Arg Ala His Glu Val Arg Arg Pro Pro His Ser Arg Pro  
1 5 10 15

Leu His Gly Thr Pro Ala Gly Trp Val Leu Asp Pro Ser Gly Tyr Lys

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157  
20 25 30  
Asp Val Thr Gln Asp Ala Glu Val Met Glu Val Leu Gln Asn Leu Tyr  
35 40 45  
Arg Thr Lys Ser Phe Leu Phe Val Gly Cys Gly Glu Thr Leu Arg Asp  
50 55 60  
Gln Ile Phe Gln Ala Leu Phe Leu Tyr Ser Val Pro Asn Lys Val Asp  
65 70 75 80  
Leu Glu His Tyr Met Leu Val Leu Lys Glu Asn Glu Asp His Phe Phe  
85 90 95  
Lys His Gln Ala Asp Met Leu Leu His Gly Ile Lys Val Val Ser Tyr  
100 105 110  
Gly Asp Cys Phe Asp His Phe Pro Gly Tyr Val Gln Asp Leu Ala Thr  
115 120 125  
Gln Ile Cys Lys Gln Gln Ser Pro Gly His Leu Tyr Ser Asn Ser Trp  
130 135 140  
Ser Ala Thr Pro Asp Gly Arg Gly Gly Pro  
145 150

<210> 357  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 357  
Val Leu Asp Pro Ser Gly Tyr Lys Asp Val Thr Gln Asp Ala Glu Val  
1 5 10 15  
Met Glu Val Leu Gln Asn Leu Tyr Arg Thr  
20 25

<210> 358  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 358  
Tyr Ser Val Pro Asn Lys Val Asp Leu Glu His Tyr Met Leu Val Leu  
1 5 10 15  
Lys Glu Asn Glu Asp His Phe Phe Lys His  
20 25

<210> 359  
<211> 25  
<212> PRT  
<213> Homo sapiens



Leu Met Gly Glu Glu Ala His Asp Ser Asp Ser His Ala Ser Asp Arg  
1 5 10 15

Gly His His Thr Met Leu Pro Leu Pro Ala Gly  
20 25

<210> 363

<211> 23

<212> PRT

<213> Homo sapiens

<400> 363

Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg	Gly	Cys	Thr	Arg	Leu
1				5					10					15	

Leu Arg Gly Ser Ser Lys Ile  
20

<210> 364

<211> 62

<212> PRT

<213> Homo sapiens

<400> 364

Met Ser Thr Gly Asp Gly Arg Asp Ala Glu Lys Gly Trp Pro Val Ser  
1 5 10 15

Glu Glu Glu Asn Gln Arg Ser Val Tyr Pro Gly Tyr Pro Glu Cys Asp  
20 25 30

Glu Arg Gln Ala Val Pro Gln His Cys Ala Ile Ala Ser Pro Ser Ser  
35 40 45

Leu Gln Ser His His Pro Ala Ser Ala Cys Val Pro Arg Arg  
50 55 60

<210> 365

<211> 38

<212> PRT

<213> Homo sapiens

<400> 365

Gln Gln Met Thr Leu Gly Thr Lys Ile Lys Trp Gly Gln Leu Gln Arg  
1 5 10 15

Gly Gln Glu Ile Pro Thr Gly Asp Phe Thr Val Arg Asn Phe Met Arg  
20 25 30

Phe Ser Ile Ile Tyr Cys  
35

<210> 366

<211> 31

```
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```

<400> 366
Pro Phe Leu Phe Cys Ala Ser Arg Ile Arg Xaa Gln Gly Ile Gly Ile
  1             5             10             15
His Gly Gln Val Ala Cys Ser Ala Val Arg Met Tyr Asn Asn Arg
          20             25             30

```

```
<210> 367  
<211> 103  
<212> PRT  
<213> Homo sapiens
```

```

<400> 367
Lys Cys Ile Tyr Pro Lys Pro Ala Arg Thr His His Cys Ser Ile Cys
  1              5              10              15
Asn Arg Cys Val Leu Lys Met Asp His His Cys Pro Trp Leu Asn Asn
      20              25              30
Cys Val Gly His Tyr Asn His Arg Tyr Phe Phe Ser Phe Cys Phe Phe
      35              40              45
Met Thr Leu Gly Cys Val Tyr Cys Ser Tyr Gly Ser Trp Asp Leu Phe
      50              55              60
Arg Glu Ala Tyr Ala Ala Ile Glu Lys Met Lys Gln Leu Asp Lys Asn
  65              70              75              80
Lys Leu Gln Ala Val Ala Asn Gln Thr Tyr His Gln Thr Pro Pro Pro
      85              90              95
Thr Phe Ser Phe Arg Glu Arg
      100

```

```
<210> 368
<211> 38
<212> PRT
<213> Homo sapiens
```

```

<400> 368
Ala Arg Gly His Trp Asn Leu Ile Leu Ile Val Phe His Tyr Tyr Gln
 1             5             10             15
Ala Ile Thr Thr Pro Pro Gly Tyr Pro Pro Gln Gly Arg Asn Asp Ile
      20             25             30
Ala Thr Val Ser Ile Cys
      35

```

```
<210> 369
<211> 33
<212> PRT
<213> Homo sapiens
```

```

<400> 369
Trp Gln Cys Glu Leu Asp Cys Val Ser His Asp Ser Ser Thr His Ser
 1             5             10             15
Ala Pro Tyr Val Ile Ser Arg Ala Ser Lys Gly Ser Phe Ser Gln Asn
          20          25          30

```

Pro

```
<210> 370
<211> 83
<212> PRT
<213> Homo sapiens
```

```

<400> 370
Ser Lys Arg Ala Ser Gly Pro Ala Leu Gly Tyr His Ala Gly Gln Phe
 1          5          10          15
Lys Asp Gln Pro Phe Tyr His Cys Arg Arg Lys Thr Gln Cys Gly Glu
          20          25          30
Ile Leu Gly Leu Thr Ser Leu Tyr Ser Gly Lys Gln Lys Phe Gln Pro
          35          40          45
Gln Thr Arg Gly Gln Ala Ala Ser Tyr Leu Pro Cys Pro Val Leu Thr
          50          55          60
Arg Thr Ser Ser Arg Ile Gln His Trp Ser Trp Pro Pro Pro Leu Leu
 65          70          75          80
Leu Ala Val

```

```
<210> 371
<211> 31
<212> PRT
<213> Homo sapiens
```

<400> 371  
Glu Ser Leu Gln Leu Arg Leu Leu Gly Gln Leu Glu Gly Ile Pro Gly  
1 5 10 15  
Cys Gly Tyr Arg Lys Ala Leu Ala Tyr Ser Gly Ala Leu Thr Phe  
20 25 30

<210> 372  
<211> 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 372

Ser Leu Ala Pro Trp Glu Trp Asn Glu Leu Gly Ala Pro Ser Leu Gly  
 1 5 10 15

Asp Cys Ser Leu Ser Leu Cys Asp Gly Ser Val Ser Trp Thr Val Ser  
 20 25 30

Ala Thr Thr Arg Ala Leu Ile Leu Leu Pro Met Leu Phe Gln Gly Pro  
 35 40 45

Pro Arg Ala Ala Phe Leu Arg Ile Leu Asp Gln Lys Glu Pro Val Gly  
 50 55 60

Leu Pro  
 65

&lt;210&gt; 373

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 373

Leu Lys Cys Thr Ile Tyr Gly Gly Ala  
 1 5

&lt;210&gt; 374

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 374

Ala Ser Ile Asp Thr Trp Pro Gly Arg Arg Ser Gly Gly Met Ile Val  
 1 5 10 15

Ile Thr Ser Ile  
 20

&lt;210&gt; 375

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 375

Gly Ser Pro Gln Ala Glu Thr Arg Trp Ser Asp Pro Ile Ala Leu His  
 1 5 10 15

Gln Gly Lys Ser Pro Ala Ser Ile Asp Thr Trp Pro Gly Arg Arg Ser  
 20 25 30

Gly Gly Met Ile Val Ile Thr Ser Ile  
 35 40

<210> 376  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 376  
 Gly Ser Lys Gly Gln Glu Arg Lys Trp Arg Val Arg Met Gly Tyr Leu  
     1                    5                    10                    15

Asn

<210> 377  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 377  
 Gln Arg Tyr Arg Leu Leu Pro Leu Phe Cys Tyr Val Cys Ser Arg Lys  
     1                    5                    10                    15

Ile Lys Leu Asn Glu Asn Leu Phe Val Phe Ser Ala Tyr Ser Leu Ala  
                     20                    25                    30

Thr Leu Pro His Thr Tyr Leu Phe Ser Ile Val Glu Cys Ser Ser Phe  
             35                    40                    45

Cys Leu Ser Gly Thr Arg Asn  
     50                    55

<210> 378  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 378  
 Phe Ser Ala Tyr Ser Leu Ala Thr Leu Pro His Thr Tyr Leu Phe Ser  
     1                    5                    10                    15

Ile Val Glu Cys Ser Ser Phe Cys Leu Ser Gly  
             20                    25

<210> 379  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 379  
 Met Thr Leu Asp Glu Trp Lys Asn Leu Gln Glu Gln Thr Arg Pro Lys  
     1                    5                    10                    15

Pro Glu Phe Asn Ile Arg Lys Pro Glu Ser Thr Val Pro Ser Lys Ala  
             20                    25                    30

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Val Val Ile Arg Glu Ser Lys Tyr Arg Asp Asp Met Val Lys Asp Asp  
35 40 45

Tyr Glu Asp Asp Ser His Val Phe Arg Lys Pro Ala Asn Asp Ile Thr  
50 55 60

Ser Gln Leu Glu Ile Asn Phe Gly Asn Leu Pro Arg Pro Gly Arg Gly  
65 70 75 80

Ala Arg Gly Gly Thr Arg Gly Gly Arg Gly Arg Ile Arg Arg Ala Glu  
85 90 95

Asn Tyr Gly Pro Arg Ala Glu Val Val Met Gln Asp Val Ala Pro Asn  
100 105 110

Pro Asp Asp Pro Glu Asp Phe Pro Ala Leu Ser  
115 120

<210> 380

<211> 100

<212> PRT

<213> Homo sapiens

<400> 380

Cys Lys Met Leu Pro Pro Thr Gln Met Thr Arg Lys Ile Ser Leu Arg  
1 5 10 15

Cys Leu Glu Arg Ala Leu Phe Pro Ser Thr Ala Glu Leu His Cys Thr  
20 25 30

Pro Val Gly Arg Leu Phe Gln Leu Gly Gln Gly Ser Gln Thr Leu Arg  
35 40 45

Thr Ile Asp Val Ala Phe Pro Val Ser Cys Lys Phe Val Ala Leu Phe  
50 55 60

Trp Ala Glu Leu Leu Glu Gly Leu Leu Gln Arg Leu Glu Ser Arg Pro  
65 70 75 80

Phe Pro Lys Lys Met Lys Asn Gly Asp Cys Val Phe Ile Glu Gly Ile  
85 90 95

Ser Asn Glu Glu  
100

<210> 381

<211> 41

<212> PRT

<213> Homo sapiens

<400> 381

Pro Pro Ser Ser Trp Ala Trp Ser Gln Arg Arg His Pro Gly Arg Pro  
1 5 10 15

Gly Lys Asp Gln Glu Gly Arg Glu Leu Trp Thr Gln Ser Arg Ser Gly  
20 25 30

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```
<210> 382
<211> 22
<212> PRT
<213> Homo sapiens
```

Trp Arg Glu Arg Arg Leu  
20

```
<210> 383
<211> 24
<212> PRT
<213> Homo sapiens
```

Ser Val Ser Thr Gln Thr Gly Ser  
20

```
<210> 384
<211> 10
<212> PRT
<213> Homo sapiens
```

```
<210> 385
<211> 34
<212> PRT
<213> Homo sapiens
```

Thr Asn Pro Gln Ala Pro Val Ala Ala Ala Ala Arg Val Ala Arg Arg  
20 25 30

Val Asn

<210> 386  
 <211> 255  
 <212> PRT  
 <213> Homo sapiens

<400> 386

Lys	Ile	Pro	Ser	Ala	Asn	Arg	Arg	Ala	Thr	Arg	Cys	Leu	Gly	Cys	Asp
1				5					10					15	
His	Gln	Asn	Phe	Val	Lys	Val	Arg	Asn	Lys	His	Lys	Gly	Lys	Pro	Thr
			20					25					30		
Phe	Met	Glu	Glu	Val	Leu	Glu	His	Leu	Pro	Gly	Lys	Thr	Gln	Asp	Glu
		35					40					45			
Val	Gln	Gln	His	Glu	Lys	Trp	Tyr	Gln	Lys	Phe	Leu	Ala	Leu	Glu	Glu
	50					55					60				
Arg	Lys	Lys	Glu	Ser	Ile	Gln	Ile	Trp	Lys	Thr	Lys	Lys	Gln	Gln	Lys
65					70					75					80
Arg	Glu	Glu	Ile	Phe	Lys	Leu	Lys	Glu	Lys	Ala	Asp	Asn	Thr	Pro	Val
				85					90					95	
Leu	Phe	His	Asn	Lys	Gln	Glu	Asp	Asn	Gln	Lys	Gln	Lys	Glu	Glu	Gln
			100					105					110		
Arg	Lys	Lys	Gln	Lys	Leu	Ala	Val	Glu	Ala	Trp	Lys	Lys	Gln	Lys	Ser
		115					120						125		
Ile	Glu	Met	Ser	Met	Lys	Cys	Ala	Ser	Gln	Leu	Lys	Lys	Lys	Lys	Lys
130						135					140				
Lys	Lys	Lys	Lys	Asn	Gln	Lys	Glu	Arg	Gln	Arg	Gln	Phe	Lys	Leu	Lys
145					150					155					160
Leu	Leu	Leu	Glu	Ser	Tyr	Thr	Gln	Gln	Lys	Lys	Glu	Gln	Glu	Glu	Phe
				165					170					175	
Leu	Arg	Leu	Glu	Lys	Glu	Ile	Arg	Glu	Lys	Ala	Glu	Lys	Ala	Glu	Lys
			180					185					190		
Arg	Lys	Asn	Ala	Ala	Asp	Glu	Ile	Ser	Arg	Phe	Gln	Glu	Arg	Asp	Leu
		195					200					205			
His	Lys	Leu	Glu	Leu	Lys	Ile	Leu	Asp	Arg	Gln	Ala	Lys	Glu	Asp	Glu
210						215					220				
Lys	Ser	Gln	Lys	Gln	Arg	Arg	Leu	Ala	Lys	Leu	Lys	Glu	Lys	Val	Glu
225					230					235					240
Asn	Asn	Val	Ser	Arg	Asp	Pro	Ser	Arg	Leu	Tyr	Lys	Pro	Thr	Lys	
				245					250					255	

<210> 387  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 387

Val Lys Val Arg Asn Lys His Lys Gly Lys Pro Thr Phe Met Glu Glu  
 1 5 10 15

Val Leu Glu His Leu Pro Gly Lys  
 20

&lt;210&gt; 388

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 388

Gln His Glu Lys Trp Tyr Gln Lys Phe Leu Ala Leu Glu Glu Arg Lys  
 1 5 10 15

Lys Glu Ser Ile Gln Ile Trp  
 20

&lt;210&gt; 389

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 389

Phe Lys Leu Lys Glu Lys Ala Asp Asn Thr Pro Val Leu Phe His Asn  
 1 5 10 15

Lys Gln Glu Asp Asn Gln Lys Gln Lys Glu Glu Gln Arg Lys Lys  
 20 25 30

&lt;210&gt; 390

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 390

Phe Leu Arg Leu Glu Lys Glu Ile Arg Glu Lys Ala Glu Lys Ala Glu  
 1 5 10 15

Lys Arg Lys Asn Ala Ala Asp Glu Ile Ser Arg Phe Gln Glu Arg Asp  
 20 25 30

Leu His Lys Leu  
 35

&lt;210&gt; 391

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 391

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 T00T0T-022E2660

Lys Gln Arg Arg Leu Ala Lys Leu Lys Glu Lys Val Glu Asn Asn Val  
1 5 10 15

Ser Arg Asp Pro Ser Arg Leu Tyr  
20

<210> 392

<211> 44

<212> PRT

<213> Homo sapiens

<400> 392

Leu Pro Pro Cys Leu Ala Gln Ile Phe Pro Phe Phe Ser Ser Gly Thr  
1 5 10 15

Asn Leu Thr Phe Cys Phe Phe Val Phe Val Phe Val Phe Val Phe Ala  
20 25 30

Glu Leu Asp Tyr Arg Asn Ser Tyr Glu Ile Glu Tyr  
35 40

<210> 393

<211> 56

<212> PRT

<213> Homo sapiens

<400> 393

His Val Leu Trp Ser Leu Leu Ser Ala Cys Trp Thr Gln Phe Leu Val  
1 5 10 15

Tyr Phe Cys Cys Leu Met Ile Leu Gln Arg Thr Phe Pro Pro Arg Ala  
20 25 30

Leu Arg Thr Ser Pro Trp Leu Ser Asn Pro Met Gly Val Lys Gly Lys  
35 40 45

Lys Lys Lys Gly Thr Phe Met Glu  
50 55

<210> 394

<211> 30

<212> PRT

<213> Homo sapiens

<400> 394

Phe Leu Val Tyr Phe Cys Cys Leu Met Ile Leu Gln Arg Thr Phe Pro  
1 5 10 15

Pro Arg Ala Leu Arg Thr Ser Pro Trp Leu Ser Asn Pro Met  
20 25 30

<210> 395

<211> 18

Ile Leu Gln Val Cys Met Asn Ser Val Tyr Ile Ile Tyr Tyr Asn Leu  
100 105 110















<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 419

His Gly Asp Trp Ile Tyr Val His Ile Val Glu Gln Leu Asn Gln Ala  
1 5 10 15

Asn Asn Lys Ser Val Thr Ser His Thr Tyr Phe Val Val Lys Thr Cys  
20 25 30

Lys Ile His Ser Leu Ser Asn Phe Gln Ala Ser Asn Thr Leu Leu Xaa  
35 40 45

Thr Val Val Thr Met Leu Tyr Asn Arg Ser Leu Glu Leu Ile Leu Pro  
50 55 60

Val  
65

<210> 420

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 420

Thr Tyr Ser Ser Cys Leu Thr Lys Ile Leu Tyr Ser Leu Ile Asn Ile  
1 5 10 15

Tyr Pro Ile Pro His Cys Ser Pro Ala Xaa Ile Thr Thr Ile Leu Leu  
20 25 30

Ser Ala Ser Met Asn Leu Thr Phe Phe Phe Phe Arg Phe His Ile Cys  
35 40 45

Glu Ile Ala Gln Tyr Leu Ser Phe Cys Ala Trp Leu Ile Ser Leu Asn  
50 55 60

Ile Lys Ser Leu  
65

<210> 421

<211> 33

<212> PRT

<213> Homo sapiens

<400> 421

Met Asn Leu Thr Phe Phe Phe Phe Arg Phe His Ile Cys Glu Ile Ala  
1 5 10 15

Gln Tyr Leu Ser Phe Cys Ala Trp Leu Ile Ser Leu Asn Ile Lys Ser  
20 25 30

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Leu

```
<400> 422
Arg Ser Lys Arg Gln Ser Gln Gly Ser Arg Cys Ser Val Pro Leu Leu
  1          5          10          15
Ala Gln Gln Ser Arg Ser Pro Pro Val Pro Leu Gln Ala Gln Pro Ala
      20          25          30
Trp Leu Leu Gly Ser Glu Thr Ile Ala Trp Ser Gly Gly Gly Ser Gly
    35          40          45
Trp Glu Gly Pro Arg Asp Pro Gly Thr Ser Thr Ala Ala Gly Asn Ser
   50          55          60
Gly Pro Gly Ile Gly Met Gly His Arg Thr Pro Pro Pro Ser His Thr
  65          70          75          80
Gly Arg
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<400> 423
Arg Trp Asp Pro Ala Trp Gly Leu Asp Ile Pro Glu Ser Ser Cys Pro
 1             5             10             15
Val Thr Met Gly Glu Leu Arg Ser Gly Asp Gly Ile Val Leu
          20             25             30

```

<400> 424

Gly Ala Leu Leu Trp Asp Asn Ser Met Ile Ser Ala Pro Arg Gly Ser  
1 5 10 15

His Arg Glu Ala Gly Ala Leu Phe Pro Ser Trp Leu Ser Asn Pro Ala  
20 25 30

Val Leu Pro Ser Arg Ser Arg Pro Ser Gln Pro Gly Cys Leu Asp Pro  
35 40 45

Arg Gln



<210> 428  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 428  
 Leu Ala Leu Gln Glu Ala Val Thr Gly Lys Gln Val Leu Cys Ser Pro  
   1                  5                  10                  15  
 Pro Gly Ser Ala Ile Pro Gln Ser Ser Arg Pro Ala Pro Gly Pro Ala  
                   20                  25                  30  
 Ser Leu Ala Ala Trp Ile Arg Asp Asn Ser Leu Val Trp Arg Arg Leu  
                   35                  40                  45  
 Arg Val Gly Gly Thr Gln Gly Pro Gly His Gln Tyr Ser Ser Trp Glu  
                   50                  55                  60  
 Phe Arg Pro Arg Asp Arg Asp Gly Ala Gln Asp Thr Thr Pro Ile Ser  
                   65                  70                  75                  80  
 His Arg Glu Met Lys Val Gly Ser Ser Met Gly Thr Gly His Pro  
                   85                  90                  95

<210> 429  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 429  
 Met Ala Gly Arg Leu Phe Thr Leu Leu Leu Trp Gln Glu Leu Ala Arg  
   1                  5                  10                  15  
 Arg Leu Val Pro Gly Asp Ala Ser Pro Arg Leu Ser Arg Lys Arg Ser  
                   20                  25                  30  
 Val Thr Pro Gly Pro Pro Phe Pro Thr Leu Thr Val Pro Ser Glu  
                   35                  40                  45

<210> 430  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 430  
 Val Trp Leu Leu Ser Ser Ile Leu Leu Arg Val Leu Trp Asn Arg Tyr  
   1                  5                  10                  15  
 Thr Leu Gln Glu Leu Ser Phe Trp Leu Pro Trp Phe Ala Ser Arg Ala  
                   20                  25                  30  
 Thr Ser Leu Val Leu Gln His Gly Asp Asn Tyr Leu Leu Phe Leu Phe  
                   35                  40                  45  
 Cys Phe Val Cys Phe Val Leu Ala Met Pro Phe  
                   50                  55

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<210> 431  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 431  
 Ile Arg His Glu Val Ser Met Ala Phe Val Phe His Leu Ala Gln Gly  
 1 5 10 15  
 Thr Leu Glu Pro Leu Tyr Ile Ala Gly Ala  
 20 25

<210> 432  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 432  
 Asn Ser Ala Arg Gly Glu Tyr Gly Phe Cys Leu Pro Ser Cys Ser Gly  
 1 5 10 15  
 Tyr Phe Gly Thr Ala Ile His Cys Arg Ser Leu Ala Ser Gly Tyr His  
 20 25 30  
 Gly Leu Leu Pro Glu Gln Gln Ala  
 35 40

<210> 433  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 433  
 His Glu Leu Thr Val Pro Ser Arg Met Gly Ser Lys Gly Lys Pro Tyr  
 1 5 10 15  
 Pro Cys Gly Phe Tyr Ser Ser Leu Ile Pro  
 20 25

<210> 434  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 434  
 Gly Thr Glu Ser Pro Met Val Met Cys Cys Arg Glu Val Ser Gln Ser  
 1 5 10 15  
 Glu Asn Cys Leu Phe Leu Asp Thr Thr Phe Arg Phe Ile Phe Gly Lys  
 20 25 30  
 Thr Phe Thr Asn His Asp Tyr Ile Ser Ile His Phe Tyr Phe Leu Lys  
 35 40 45

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Ala Phe Leu Phe Ser Phe Phe Tyr Ser Asn Val  
 50 55

<210> 435  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 435  
 Ser Leu Gln Tyr Arg Ile Arg Ile Pro Gly Arg Pro Thr  
 1 5 10

<210> 436  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 436  
 Asp Leu Val Thr Tyr Thr Ser Ser Leu Gln Tyr Arg Ile Arg Ile Pro  
 1 5 10 15

Gly Arg Pro Thr Arg Pro  
 20

<210> 437  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 437  
 Leu Gly Asn Lys Lys Tyr Ile Asn Ile Arg Cys Leu Glu Met Gln Val  
 1 5 10 15

Thr Leu Lys Ile Leu Cys Glu Ile Glu Lys Lys Glu Arg Arg Gly Thr  
 20 25 30

His Cys Leu Val  
 35

<210> 438  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 438  
 Val Lys Thr Ala Glu Cys Tyr Ser Ile Pro Leu Gly Ser Cys Pro Val  
 1 5 10 15

Asn Ile Gln Arg Val Arg  
 20

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Ala Pro Gly Leu Cys Ala Asp Phe Leu Gly Ser Ser Asn His Cys Ile  
                   20                                  25                                  30

Phe Leu Leu Ser Leu Tyr Leu Gly Arg Asp Gln  
                   35                                  40

<210> 442

<211> 49

<212> PRT

<213> Homo sapiens

<400> 442

Glu Lys Arg Ile Met Val Pro Gln Gly Phe Phe Pro Phe Thr Arg Trp  
           1                                  5                                  10                                  15

Gln Pro Leu Ser Val Gly Thr Ser Cys Phe Ser Thr Leu Tyr Trp Ala  
                                   20                                  25                                  30

Val Glu Val Thr Ile Thr Gln Ala Ser Leu Leu Cys Leu Gly Cys Ala  
                   35                                  40                                  45

Leu

<210> 443

<211> 30

<212> PRT

<213> Homo sapiens

<400> 443

Asn Ser Ala Arg Val Thr Gln Lys Gly Glu Ser Val Gly Ser Val Gly  
           1                                  5                                  10                                  15

Cys Met Arg Ala Ile Ala Gly Phe Asp Asn Tyr Pro Leu Phe  
                   20                                  25                                  30

<210> 444

<211> 33

<212> PRT

<213> Homo sapiens

<400> 444

Gly Thr Ile Gly Ile Phe Trp Pro Leu Pro Val Ala Ile Leu Ser Ser  
           1                                  5                                  10                                  15

Gly Asp Tyr Leu Gln Thr Gln Ile His Arg Pro Leu Leu His Arg Gly  
                   20                                  25                                  30

Thr

<210> 445

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<211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 445  
 Leu Pro Leu Pro Leu Ser Ser Leu Leu His Ile Ala Thr Cys Asn Pro  
   1                  5                  10                  15  
 Phe Pro Lys Thr  
                   20

<210> 446  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 446  
 Ser Tyr Phe Phe Val Tyr Asn Leu Ile Leu Lys Ile Ile Gln Gly Asp  
   1                  5                  10                  15  
 His Ala Ser Ile Ile Leu Leu Ala Thr Ile Pro Ile Phe Gly Asp Ile  
                   20                  25                  30  
 Tyr Tyr Val Lys Gly Gln Leu Ala Ser Phe Gly Pro Tyr Leu  
                   35                  40                  45

<210> 447  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 447  
 Leu Phe Tyr His Leu Glu Ile Ile Ser Arg His Lys Ser Ile Ala His  
   1                  5                  10                  15  
 Cys Ser Ile Glu Ala  
                   20

<210> 448  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 448  
 Cys Ser Cys His Cys Pro Ser Arg Ala Phe Ser Thr  
   1                  5                  10

<210> 449  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 449

185

Pro His Ala Ile His Ser Gln Lys Pro Ser Ser Ile Phe Leu Ile Thr  
1 5 10 15

Asp Val Phe Pro Asp Pro Pro Val Gly Ile Tyr Leu Leu  
20 25

<210> 450

<211> 15

<212> PRT

<213> Homo sapiens

<400> 450

Thr Arg Pro Thr Met Pro Asn Phe Leu Trp Phe Pro Lys Cys Ala  
1 5 10 15

<210> 451

<211> 35

<212> PRT

<213> Homo sapiens

<400> 451

Arg Asn Ser Leu His Cys Tyr Asn Glu Gln Pro Pro Asn Ala Ser Gly  
1 5 10 15

Leu Ile Gln Trp Ser Ser Asp Leu Ile Pro Ile Ser Leu Gln Cys Gly  
20 25 30

Cys Ser Trp  
35

<210> 452

<211> 15

<212> PRT

<213> Homo sapiens

<400> 452

Ile Arg His Glu Glu Lys Gly Gly Lys Ala Gln Arg Trp Ala Glu  
1 5 10 15

<210> 453

<211> 62

<212> PRT

<213> Homo sapiens

<400> 453

Val Asp Pro Arg Val Arg Leu Pro Leu Phe Trp Trp Gln Pro Ser Cys  
1 5 10 15

Ala Val Tyr Leu Phe Pro Arg Val Tyr Asn Asn Met Cys Thr Arg Val  
20 25 30

Leu Gly Thr Leu Pro His Cys Trp Asp Leu Ala Thr Leu Leu Gln Pro  
35 40 45

100101-3222600

Ser Ser Arg Ile Trp Gly Asn Val Ser Glu Ala Pro Gly Met  
 50 55 60

<210> 454  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<400> 454  
 Val Pro Tyr His Ile Ala Gly Thr Leu Pro His Cys Cys Ser Leu Pro  
 1 5 10 15  
 Val Gly Tyr Gly Gly Met Ser Val Arg Leu Gln Gly Cys Arg Tyr Val  
 20 25 30  
 Gly Asn Val Gly Pro Gln Gly Asn Met Gln Ser Gly Arg Ser Trp Ala  
 35 40 45  
 Leu Lys Met Val Leu Leu Cys Asn Ser Cys Leu Gly Leu Gly Val Gly  
 50 55 60  
 Ser Val Gly Pro Ser Met Ser Ser Leu Phe Gly Ala Val Leu Ser Glu  
 65 70 75 80  
 Thr Pro Gly Ser Ser Val Tyr  
 85

<210> 455  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 455  
 Met Leu Asp Pro Arg Ala Thr Cys Asn Leu Val Gly Val Gly Leu Ser  
 1 5 10 15  
 Lys Trp Cys Cys Cys Val Thr Ala Ala Trp Val Leu Gly  
 20 25

<210> 456  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 456  
 Pro Gln Ile Lys Leu Leu Asn Ser Asp Ala Leu Gly Met Arg Thr Thr  
 1 5 10 15  
 Ser Xaa Asp Leu Val Pro Cys Asn Gln Cys Phe Ile Pro Leu Pro Pro

187

	20		25		30										
Ser	Cys	Asn	Arg	Ile	Ala	Ser	Arg	Lys	Ala	Val	Asn	Trp	Lys	Gln	Gln
	35						40					45			
Arg	Leu	Pro	Ala	Val	Arg	Gly	Leu	Leu	Asn	Asn	Ala	Pro	His	Arg	Arg
	50					55					60				
Pro	Pro	Thr	Pro	Arg	Thr	Pro	Cys	Val	Phe	Pro	Ser	Glu	Gly	Pro	Lys
	65				70					75					80
Gly	Tyr	Gly	Phe	His	Val										
				85											

<210> 457  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 457  
 Glu Gln Leu Ala Xaa Ile Ser Cys Arg Val Ile Asn Val Ser Phe Arg  
 1 5 10 15

Cys Leu His His Val Ile Glu Ser Leu Pro Glu Arg Gln Leu Thr Gly  
 20 25 30

Ser Ser Arg Gly Ser Gln Pro  
 35

<210> 458  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 458  
 Glu Asp Cys Ser Thr Met Pro Pro Ile Ala Ala Pro Pro Pro Leu Ala  
 1 5 10 15

Pro Leu Val Phe Ser Pro Leu Arg Gly Pro Arg Val Met Ala Phe Met  
 20 25 30

Ser Arg Cys Gly Asp Arg Gly Gly Arg Gly Arg Ser Xaa Ala Gly Arg  
 35 40 45

Gly Trp Pro Trp Ser Glu Ser Gly Val Ile Asn Ala His Pro Lys Lys  
 50 55 60

Arg Pro Cys Pro Gly Pro Met Leu Ser  
65 70

<210> 459  
<211> 48  
<212> PRT  
<213> Homo sapiens

<400> 459  
Glu Phe Gly Thr Arg Arg Gln Trp Gly Thr Arg Cys Phe Pro Pro Leu  
1 5 10 15  
Val Gly Arg Lys Gln Ser Ala Leu Arg Arg Arg Glu Gly Lys Ala Arg  
20 25 30  
Ala Gly Arg Cys Cys Gly Lys Arg Ser Val Lys Ala Gly Phe Asp Ala  
35 40 45

<210> 460  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 460  
Pro Lys Val Leu Ala Val Leu Lys Lys Lys Asn His Val Ala Leu Ser  
1 5 10 15  
Ile Phe Glu Leu Leu Ser Asn Asp Ile Cys Ser Phe Ile Ser Phe Phe  
20 25 30

Met Ser

<210> 461  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 461  
Glu Gly Pro Asp Ile Asn Ser Asn Leu Lys Phe Leu Leu Cys Leu Lys  
1 5 10 15  
Lys Lys Ile Met Trp Pro Phe Gln Tyr Leu Asn Cys  
20 25

<210> 462  
<211> 47  
<212> PRT  
<213> Homo sapiens





[illegible]

Ser Arg Leu Met Leu Arg Arg Ile Pro  
20 25



<210> 472  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 472  
 Arg Ile Lys Lys His Leu Glu Gly His Ser Ala Asn Leu Ser Leu Asp  
           1                  5                  10                  15  
 Ile Ala Lys Tyr Ile Tyr Ile Phe Lys Ala Ser Gln Ala His Leu Thr  
                   20                  25                  30

<210> 473  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 473  
 Val Phe Leu Gln Gln Gly Leu Thr Gln Arg Ser Val Ile Leu Ile Gly  
           1                  5                  10                  15  
 His Ile Cys Gln Phe Trp Leu Ala Ile Met Pro Gly Tyr Asn His Phe  
                   20                  25                  30  
 Met Thr Gln Leu His Met Leu Ser Gly Leu Asn Ile Tyr His Asn Lys  
                   35                  40                  45  
 Ser Ala Pro Ile Ile Glu Ala Tyr His Pro Gln Lys Ser Ile Cys Lys  
           50                  55                  60  
 Gln Asn  
       65

<210> 474  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 474  
 Ile Gly His Ile Cys Gln Phe Trp Leu Ala Ile Met Pro Gly Tyr Asn  
           1                  5                  10                  15  
 His Phe Met Thr Gln Leu His Met Leu Ser Gly Leu  
                   20                  25

<210> 475  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 475  
 Ser Ile Pro Gly Thr Pro Asp Leu Asn Ala Arg Thr Gly Val Leu Glu

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T00101-822E2560

193

1                    5                    10                    15  
Gly Ala Ala Asp Arg Leu Ala Ala Ser Asn Pro Leu Lys Trp Ile Lys  
                  20                    25                    30  
Thr Leu Arg Ser Ser Val Ile Ser Met Met Ile Val Leu Leu Ile Cys  
                  35                    40                    45  
Val Val Cys Leu Tyr Ile Val Cys Arg Cys  
                  50                    55

<210> 476  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 476  
Val Leu Glu Gly Ala Ala Asp Arg Leu Ala Ala Ser Asn Pro Leu Lys  
1                    5                    10                    15  
Trp Ile Lys Thr Leu Arg Ser Ser Val Ile Ser  
                  20                    25

<210> 477  
<211> 75  
<212> PRT  
<213> Homo sapiens

<400> 477  
Leu Thr Val Thr Lys Leu Pro Trp Leu Phe Ile Ala Leu Gln Asn Lys  
1                    5                    10                    15  
Arg Met Gly Thr Ser Trp Glu Gln Ala Pro Lys Ser Gly His Lys Leu  
                  20                    25                    30  
Ala Pro Lys Leu Val Ile Asn Lys Ile Ser Ala Ala Leu Ser His Ala  
                  35                    40                    45  
Cys Asp Ser Leu Thr Pro Thr Leu Glu Gly Cys Arg Phe Thr Gly Met  
                  50                    55                    60  
Arg Ala Arg Asn Asn Trp Pro Thr Gln Gly Gly  
65                    70                    75

<210> 478  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 478  
Met Gly Thr Ser Trp Glu Gln Ala Pro Lys Ser Gly His Lys Leu Ala  
1                    5                    10                    15  
Pro Lys Leu Val Ile Asn Lys Ile Ser Ala Ala Leu Ser  
                  20                    25



195  
1 5 10

<210> 483  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 483  
Ser Pro Leu Leu Phe Asn Ile Leu Leu Glu Val Leu Ser Ser Ala Val  
1 5 10 15  
Arg Lys Glu Lys Glu Leu Lys  
20

<210> 484  
<211> 86  
<212> PRT  
<213> Homo sapiens

<400> 484  
Leu Cys Ala Val Glu Lys Thr Arg Thr Phe Thr Arg Gly Asp Cys Gly  
1 5 10 15  
Pro Asn Arg His His Lys His Val Leu Lys Ala Lys Asp Asn Asn His  
20 25 30  
Ile Gln Arg His Gln Phe Ser Ser Thr Leu Glu Phe Ser Ser Asn Ser  
35 40 45  
Thr Asp Gly Leu Lys Tyr Ile Cys Val Tyr Leu Tyr Val Cys Thr His  
50 55 60  
Pro Cys Ile Tyr Ile Tyr Leu Ser Ala His Thr Leu His Met Tyr Thr  
65 70 75 80  
His Tyr Leu Cys Lys Ile  
85

<210> 485  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 485  
Ser Ser Thr Leu Glu Phe Ser Ser Asn Ser Thr Asp Gly Leu Lys Tyr  
1 5 10 15  
Ile Cys Val Tyr Leu Tyr Val Cys Thr His Pro Cys Ile Tyr  
20 25 30

<210> 486  
<211> 69  
<212> PRT

<213> Homo sapiens

<400> 486

Ser Thr Ser Val Cys Ile Cys Thr Cys Ala His Thr His Val Tyr Ile  
1 5 10 15

Phe Ile Tyr Leu His Thr His Tyr Ile Cys Ile His Thr Ile Tyr Val  
20 25 30

Lys Tyr Asn Ile Cys Ile Met His Ile Asn Ser Asn Lys Cys Ile Cys  
35 40 45

Val Ile Phe Lys Ile Glu Gln Leu Tyr Leu Glu Val Val Asn Ala Glu  
50 55 60

Asn Trp Phe Tyr Cys  
65

<210> 487

<211> 31

<212> PRT

<213> Homo sapiens

<400> 487

Ile His Thr Ile Tyr Val Lys Tyr Asn Ile Cys Ile Met His Ile Asn  
1 5 10 15

Ser Asn Lys Cys Ile Cys Val Ile Phe Lys Ile Glu Gln Leu Tyr  
20 25 30

<210> 488

<211> 9

<212> PRT

<213> Homo sapiens

<400> 488

Asn Ser Ala Val Thr Val Gln Met Ala  
1 5

<210> 489

<211> 24

<212> PRT

<213> Homo sapiens

<400> 489

Lys Tyr Leu Val Ser Ser Val Leu Pro Thr Ile Ser Met Ala Arg Ser  
1 5 10 15

Leu Ile Ser Ala Leu Arg Ser Gly  
20

<210> 490

<211> 43

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<210> 494  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 494  
 Ser Val Ser Glu Val Lys Ala Val Ala Glu Met Gln Phe Gly Glu Leu  
     1                    5                    10                    15  
 Leu Ala Ala Val Arg Lys Ala Gln Ala Asn Val Met Leu Phe Leu Xaa  
                     20                    25                    30  
 Glu Lys Glu Gln Ala Ala Leu  
                     35

<210> 495  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 495  
 Glu Lys Ser Lys Gln Glu Leu Glu Thr Met Ala Ala Ile Ser Asn Thr  
     1                    5                    10                    15  
 Val Gln Phe Leu Glu Glu Tyr Cys Lys Phe Lys Asn Thr Glu Asp Ile  
                     20                    25                    30  
 Thr Phe Pro Ser Val Tyr Ile Gly Leu Lys Asp  
                     35                    40

<210> 496  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 496  
 Leu Glu Asn Tyr Lys Lys Lys Leu Gln Glu Phe Ser Lys Glu Glu  
     1                    5                    10                    15  
 Tyr Asp Ile Arg Thr Gln Val Ser Ala Xaa Val Gln Arg  
                     20                    25

<210> 497  
 <211> 38



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<210> 501
<211> 337
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (150)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (200)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (278)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (284)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 501
Ala Glu Leu Gln Cys Thr Gln Leu Asp Leu Glu Arg Lys Leu Lys Leu
 1             5             10             15

Asn Glu Asn Ala Ile Ser Arg Leu Gln Ala Asn Gln Lys Ser Val Leu
      20             25             30

Val Ser Val Ser Glu Val Lys Ala Val Ala Glu Met Gln Phe Gly Glu
      35             40             45

Leu Leu Ala Ala Val Arg Lys Ala Gln Ala Asn Val Met Leu Phe Leu
      50             55             60

Xaa Glu Lys Glu Gln Ala Ala Leu Ser Gln Ala Asn Gly Ile Lys Ala
 65             70             75             80

```

1. The first step is to identify the problem or question that needs to be addressed. This involves understanding the context and the specific requirements of the task.

2. Next, it is essential to gather relevant information and data. This can be done through research, consultation with experts, or by analyzing existing resources.

3. Once the information is gathered, the next step is to analyze it and identify the key factors that influence the outcome. This often involves breaking down the problem into smaller, more manageable parts.

4. After analysis, the next step is to develop a plan or strategy to address the problem. This plan should outline the steps to be taken, the resources required, and the expected outcomes.

5. The final step is to implement the plan and monitor the progress. This involves executing the tasks outlined in the plan and regularly checking in to ensure that the project is on track and meeting the desired goals.

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<210> 502
<211> 301
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (166)
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Val Gln Glu Pro Ala Gly Glu Val Arg Val Gly Met Leu Pro Gly Arg  
 210 215 220

Gly Val Gly Asp Leu Ala Val Leu Leu Leu Gln Pro Glu Ile Leu Val  
 225 230 235 240

Cys Cys Val Arg Val Glu Arg Asp Val Xaa His Ile Leu Glu Glu Leu  
 245 250 255

Phe Pro Gly Ala Gly Leu Arg Phe Gly Ser Pro Ile Phe Ala Leu Asn  
 260 265 270

Asn Gly Arg His Leu Ser Ser Asp Val Ile Leu Leu Phe Leu Gly Lys  
 275 280 285

Leu Leu Glu Leu Phe Leu Ile Val Leu Gln Xaa Xaa Asp  
 290 295 300

<210> 503  
 <211> 196  
 <212> PRT  
 <213> Homo sapiens

<400> 503  
 Ser Lys Ile Lys Tyr Asp Trp Tyr Gln Thr Glu Ser Gln Val Val Ile  
 1 5 10 15

Thr Leu Met Ile Lys Asn Val Gln Lys Asn Asp Val Asn Val Glu Phe  
 20 25 30

Ser Glu Lys Glu Leu Ser Ala Leu Val Lys Leu Pro Ser Gly Glu Asp  
 35 40 45

Tyr Asn Leu Lys Leu Glu Leu Leu His Pro Ile Ile Pro Glu Gln Ser  
 50 55 60

Thr Phe Lys Val Leu Ser Thr Lys Ile Glu Ile Lys Leu Lys Lys Pro  
 65 70 75 80

Glu Ala Val Arg Trp Glu Lys Leu Glu Gly Gln Gly Asp Val Pro Thr  
 85 90 95

Pro Lys Gln Phe Val Ala Asp Val Lys Asn Leu Tyr Pro Ser Ser Ser  
 100 105 110

Pro Tyr Thr Arg Asn Trp Asp Lys Leu Val Gly Glu Ile Lys Glu Glu  
 115 120 125

Glu Lys Asn Glu Lys Leu Glu Gly Asp Ala Ala Leu Asn Arg Leu Phe  
 130 135 140

Gln Gln Ile Tyr Ser Asp Gly Ser Asp Glu Val Lys Arg Ala Met Asn  
 145 150 155 160

Lys Ser Phe Met Glu Ser Gly Gly Thr Val Leu Ser Thr Asn Trp Ser  
 165 170 175

Asp Val Gly Lys Arg Lys Val Glu Ile Asn Pro Pro Asp Asp Met Glu

180 204 190

Trp Lys Lys Tyr  
195

<210> 504  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 504  
Gly Asp Ala Ala Leu Asn Arg Leu Phe Gln Gln Ile Tyr Ser Asp Gly  
1 5 10 15  
Ser Asp Glu Val Lys Arg Ala Met Asn Lys Ser Phe Met Glu Ser Gly  
20 25 30  
Gly Thr Val Leu Ser Thr Asn  
35

<210> 505  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 505  
Asp Trp Tyr Gln Thr Glu Ser Gln Val Val Ile Thr Leu Met Ile Lys  
1 5 10 15  
Asn Val Gln Lys Asn Asp Val  
20

<210> 506  
<211> 146  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 506  
Met Ala Ala Ala Ala Ala Gly Thr Xaa Xaa Ser Gln Arg Phe Phe Gln  
1 5 10 15  
Ser Phe Ser Asp Ala Leu Ile Asp Glu Asp Pro Gln Ala Ala Leu Glu  
20 25 30  
Glu Leu Thr Lys Ala Leu Glu Gln Lys Pro Asp Asp Ala Gln Tyr Tyr



205

35

40

45

Cys Gln Arg Ala Tyr Cys His Ile Leu Leu Gly Asn Tyr Cys Val Ala  
50 55 60

Val Ala Asp Ala Lys Lys Ser Leu Glu Leu Asn Pro Asn Asn Ser Thr  
65 70 75 80

Ala Met Leu Arg Lys Gly Ile Cys Glu Tyr His Glu Lys Asn Tyr Ala  
85 90 95

Ala Ala Leu Glu Thr Phe Thr Glu Gly Gln Lys Leu Asp Ser Ala Asp  
100 105 110

Ala Asn Phe Ser Val Trp Ile Lys Arg Cys Gln Glu Ala Gln Asn Gly  
115 120 125

Ser Glu Ser Glu Val Val Ser Pro Lys Phe Ser Phe Phe Met Phe Leu  
130 135 140

Leu Phe  
145

<210> 507

<211> 38

<212> PRT

<213> Homo sapiens

<400> 507

Leu Glu Glu Leu Thr Lys Ala Leu Glu Gln Lys Pro Asp Asp Ala Gln  
1 5 10 15

Tyr Tyr Cys Gln Arg Ala Tyr Cys His Ile Leu Leu Gly Asn Tyr Cys  
20 25 30

Val Ala Val Ala Asp Ala  
35

<210> 508

<211> 31

<212> PRT

<213> Homo sapiens

<400> 508

Ala Met Leu Arg Lys Gly Ile Cys Glu Tyr His Glu Lys Asn Tyr Ala  
1 5 10 15

Ala Ala Leu Glu Thr Phe Thr Glu Gly Gln Lys Leu Asp Ser Ala  
20 25 30

<210> 509

<211> 37

<212> PRT

<213> Homo sapiens







Trp Thr Val His Val Asp Phe Ala

<210> 523  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 523  
 Met His Cys Gly Thr Arg Val Trp Lys Thr Met Lys His Asp Tyr Phe  
           1                  5                  10                  15

Leu Leu Ala Cys Leu Ser Met Thr Ser Thr Gly Gly Ile Leu Cys Thr  
                   20                  25                  30

Leu

<210> 524  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 524  
 Ser Thr Leu Ser Leu Ile Pro Thr Ser Ser Ser Leu Ser Phe Trp Pro  
           1                  5                  10                  15

Trp Cys Thr Ala Ile Ile Gly Ser Ile Phe Thr Tyr Cys Val Cys Val  
                   20                  25                  30

Cys Val Cys Phe Val Val Met Asn Arg Thr Cys Tyr Leu Pro Asn Ser  
           35                  40                  45

Ile Ile Tyr His Asn Ser Lys Leu Ala Thr Ile Ile Asp Lys Ser Met  
           50                  55                  60

Thr Leu Ser  
           65

<210> 525  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 525  
 Met Trp Ile Leu Pro Lys Val Ser Leu Ile Cys Ile Val Glu Leu Gly  
           1                  5                  10                  15

Tyr Gly Lys Pro  
           20

<210> 526  
 <211> 40  
 <212> PRT

<213> Homo sapiens

<400> 526

Met Cys Val Thr Arg Met His Val Lys Cys Pro Pro Pro Ser Ala Ser  
1 5 10 15

Val Thr Ala Val Lys Trp Pro Leu Ser Trp Ser Ser Ser Ser Phe Cys  
20 25 30

Ile Ser Leu His Ala Gly Arg His  
35 40

<210> 527

<211> 36

<212> PRT

<213> Homo sapiens

<400> 527

Glu Glu Arg Asn Lys Asn His Leu Ser Cys Gln Gly Leu Ser Thr Ile  
1 5 10 15

Cys Cys Ser Tyr Leu Ser Ser Lys Gly Glu His Leu Arg Asn Leu Ser  
20 25 30

Pro Tyr Ser Phe  
35

<210> 528

<211> 46

<212> PRT

<213> Homo sapiens

<400> 528

Gly Leu Cys Met Val His Ser Leu Leu Thr Ser Ser Leu Gly Gly Arg  
1 5 10 15

Cys Cys Asn Tyr Pro Tyr Ile Ala Asp Lys Asp Ile Glu Thr Glu Val  
20 25 30

Lys Pro Pro Ser Gln Gly His Thr Trp His Leu His Cys Ser  
35 40 45

<210> 529

<211> 75

<212> PRT

<213> Homo sapiens

<400> 529

Gln Leu Trp Cys Ile Thr Ala Leu Pro Ser Thr Arg His Cys Ser Lys  
1 5 10 15

Gly Phe Ala Trp Phe Thr His Ser Leu Arg His Pro Ser Val Ala Gly  
20 25 30

Ala Val Ile Ile Leu Ile Leu Gln Thr Arg Thr Leu Arg Gln Arg Ser







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214

Gly Lys Ala Ser Phe Ile Lys Val Arg Thr Arg Glu Arg Lys Leu Leu  
145 150 155 160

Lys Gly Thr Phe Val Gly Glu Val Asp Ser Lys Cys Trp Val Thr Gly  
165 170 175

Met Ser Glu Pro Ala Asp Ser Pro Pro Val Gly  
180 185

<210> 535

<211> 51

<212> PRT

<213> Homo sapiens

<400> 535

Leu Gln Asp Glu Gly Lys Asp Lys Ala Leu Lys Ser Ser Gln Ala Phe  
1 5 10 15

Phe Ser Lys Leu Gln Asp Gln Val Lys Met Gln Ile Asn Asp Ala Lys  
20 25 30

Lys Thr Glu Lys Lys Lys Lys Lys Arg Gln Asp Ile Ser Val His Lys  
35 40 45

Leu Lys Leu  
50

<210> 536

<211> 29

<212> PRT

<213> Homo sapiens

<400> 536

Asp Glu Gly Lys Asp Lys Ala Leu Lys Ser Ser Gln Ala Phe Phe Ser  
1 5 10 15

Lys Leu Gln Asp Gln Val Lys Met Gln Ile Asn Asp Ala  
20 25

<210> 537

<211> 28

<212> PRT

<213> Homo sapiens

<400> 537

Glu Glu Asn Pro Glu His Val Glu Ile Gln Lys Met Met Asp Ser Leu  
1 5 10 15

Phe Leu Lys Leu Asp Ala Leu Ser Asn Phe His Phe  
20 25

<210> 538

<211> 13

<212> PRT  
 <213> Homo sapiens

<400> 538  
 Ser Asn Leu Pro Ala Ile Thr Met Glu Glu Val Ala Pro  
   1                  5                  10

<210> 539  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 539  
 Ser Ser Val Asp Gln Ala Gly Lys Tyr Ser Lys Thr Val Ala Ser Glu  
   1                  5                  10                  15  
 Lys Leu Lys Gln Leu Thr Lys Thr Gly Lys Ala Ser Phe Ile Lys  
                   20                  25                  30

<210> 540  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 540  
 Val Ser Val Ser Asp Ala Ala Leu Leu Ala Pro Glu Glu Ile Lys Glu  
   1                  5                  10                  15  
 Lys Asn Lys Ala Gly Asp Ile  
                   20

<210> 541  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 541  
 Val Leu Glu Val Met Val Thr Val Ala Pro Lys  
   1                  5                  10

<210> 542  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 542  
 Leu Gln Asp Glu Gly Lys Asp Lys Ala Leu Lys Ser Ser Gln Ala Phe  
   1                  5                  10                  15  
 Phe Ser Lys Leu Gln Asp Gln Val Lys Met Gln Ile Asn Asp Ala Lys  
                   20                  25                  30

Lys Thr Glu

<210> 543  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 543  
 Val Lys Pro Pro Asp Gln Ser Cys Asn His Trp Arg Asp Glu Gln Cys  
 1 5 10 15

Leu Val

<210> 544  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 544  
 Met Leu Tyr Leu Ile Leu Ile Ser Leu Ser Ser Leu Ser Phe Ser Phe  
 1 5 10 15

Ser Leu Pro Pro Phe Ser Ile Ile Ile  
 20 25

<210> 545  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 545  
 Ser Ser Tyr Phe Leu Arg His Phe Arg Ile Tyr His Thr Cys Pro Lys  
 1 5 10 15

Tyr Phe Ser Met Asn Ile Ile Asn  
 20

<210> 546  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 546  
 Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val  
 1 5 10 15

Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala  
 20 25 30

Arg Asp Ser Leu Pro Asn Ser Thr Met Met Phe Tyr Tyr Ala Cys Phe  
 35 40 45

217

Ile Leu Tyr Ser Ser Leu Ser Pro Leu Ser Leu Ser Leu Ser Pro Ser  
50 55 60

Leu Leu Ser Leu Leu  
65

<210> 547

<211> 14

<212> PRT

<213> Homo sapiens

<400> 547

Gln Phe His Thr Gly Asn Ser Tyr Asp His Asp Tyr Ala Lys  
1 5 10

<210> 548

<211> 22

<212> PRT

<213> Homo sapiens

<400> 548

Ile Arg His Glu Glu Ser Phe Asn Pro Leu Thr Cys Gly Phe Ser Leu  
1 5 10 15

Phe Phe Ser Leu Phe Ser  
20

<210> 549

<211> 27

<212> PRT

<213> Homo sapiens

<400> 549

Met Glu Thr Leu Leu Leu Leu Leu Phe Phe Leu Ser Leu Leu Ile Phe  
1 5 10 15

Arg Phe Arg Ile Leu Val Ser Gln Cys Ile Asn  
20 25

<210> 550

<211> 65

<212> PRT

<213> Homo sapiens

<400> 550

Phe Leu Leu Thr Thr Val Leu Leu Phe Ser Ser Lys Val Arg Asp Pro  
1 5 10 15

Arg Ala Asn Phe Asp Gln Ser Leu Arg Val Leu Lys His Ala Lys Lys  
20 25 30

Val Gln Pro Asp Val Ile Ser Lys Thr Ser Ile Met Leu Gly Leu Gly  
35 40 45



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 554

Met Leu Leu Ser Leu Leu Met Val Phe Thr Ser Glu Leu Tyr Val Lys  
 1 5 10 15

Arg His Ile Ser Phe Lys Ser Xaa Asp Lys Pro His Cys His Lys Asn  
 20 25 30

Gln Asp Ile Asp Val Leu Phe Arg Lys Leu Leu Glu Lys His Phe Lys  
 35 40 45

Val Ile Asn Met Ile Cys Phe Pro  
 50 55

&lt;210&gt; 555

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 555

Phe Arg Glu Tyr Gly Phe Tyr Asn Leu His Phe Cys  
 1 5 10

&lt;210&gt; 556

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 556

Leu Val Thr Thr Asp Tyr Tyr Asp Gly Cys Asn Glu Asp Tyr Glu Tyr  
 1 5 10 15

Asn Trp Ser Tyr Met Phe Leu Asn Ser Glu Gln Leu Phe Ile Lys Phe  
 20 25 30

Tyr Pro Thr Phe Phe Cys  
 35

&lt;210&gt; 557

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 557

Asn Val Ile Ala Pro Gly Leu Glu Ser Ser Cys Ala Asn Ser Leu Phe  
 1 5 10 15

Leu Leu Phe Val Cys Leu Pro Val Ala His His Arg His Asn Phe Leu  
 20 25 30

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220

Phe Ile Lys His Ser Leu Tyr Asn His Leu Arg Asp Tyr Glu Ser Asp  
35 40 45

Phe Asp Lys Ile  
50

<210> 558

<211> 82

<212> PRT

<213> Homo sapiens

<400> 558

Leu Asn Ile Asp Ser Phe Asp Tyr Gly Lys Phe Glu Ser Leu Leu Ala  
1 5 10 15

Lys Gln His Tyr Lys Phe Ser Phe Leu Leu Pro Leu Ala Ala Gly Thr  
20 25 30

Glu Arg Cys Lys Trp Trp Leu Lys Ile Glu Glu Ala Ser Ser Asp Gln  
35 40 45

Cys Gly Cys Trp Phe Leu Val Lys Cys Val Pro Lys Pro Pro Ser Pro  
50 55 60

Cys Arg Gln Pro Pro Thr Gln Val Ser Lys Ile Gly His Ala Pro Phe  
65 70 75 80

Phe Leu

<210> 559

<211> 52

<212> PRT

<213> Homo sapiens

<400> 559

Gln Glu Phe Gln Thr Gly Leu Gly Asn Met Val Lys Pro Cys Leu Tyr  
1 5 10 15

Glu Lys Tyr Arg Asn Ile Ser Trp Leu Trp Trp His Thr Pro Val Val  
20 25 30

Pro Ala Thr Trp Glu Ala Glu Val Gly Gly Ser Leu Glu Pro Gly Arg  
35 40 45

Leu Arg Leu Gln  
50

<210> 560

<211> 65

<212> PRT

<213> Homo sapiens

<400> 560

Ile Leu Gly Gly Glu Ser Ile Leu Ile Leu Ser Trp Val Phe Ser Tyr

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221

1		5		10		15									
Ile	Phe	Phe	Arg	Ile	Ala	Leu	Glu	Ile	Thr	Ile	Tyr	Ile	Leu	Asn	Val
			20					25					30		
Ser	Pro	Phe	Cys	Leu	Gly	Arg	Trp	Leu	Met	Pro	Val	Ile	Pro	Ala	Leu
		35					40					45			
Trp	Glu	Ala	Glu	Val	Gly	Gly	Leu	Pro	Glu	Leu	Arg	Ser	Ser	Arg	Pro
	50					55					60				
Ala															
65															

<210> 561  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 561

Val	Leu	Cys	Glu	Glu	Ala	Gly	Gln	Lys	Val	Pro	Ser	Thr	Pro	Ser	Trp
1				5					10					15	
Ser	Ser	Trp	Thr	Leu	Gln	Lys	Arg	Leu	Arg	Gly	Ser	Pro	Ala	Glu	Ala
			20					25					30		
Asn	Cys	Ser	Pro	Ser	Phe	Pro	Ala	Pro	Pro	Gly	Lys	Glu			
	35						40					45			

<210> 562  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 562

Met	Ser	Leu	Ser	Ala	Leu	Ala	Cys	Asp	Phe	Thr	Pro	Ile	Gln	Pro	Trp
1				5					10					15	
Glu	Trp	Glu	Glu	Tyr	Glu	Gln	Ile	Thr	Leu	Gly	Leu	Thr	Ala	Pro	Ser
		20						25					30		
Asn	Leu	Leu	Glu	Ser	Asn	Tyr	Leu	Gly	Gln	Ala	Ser	Glu	Cys	Phe	Val
	35						40					45			
Arg	Lys	Leu	Val	Arg	Arg	Phe	Pro	Gln	Leu	Leu	Pro	Gly	Pro	Pro	Gly
	50					55					60				
His	Cys	Arg	Lys	Asp	Leu	Gly	Asp	Pro	Gln	Gln	Arg	Pro	Ile	Ala	Leu
65					70					75				80	
Leu	Pro	Ser	Leu	Pro	His	Gln	Glu	Arg	Asn	Asn	Val	His	Arg	Leu	Glu
			85						90					95	
Ala	Asp	Ser	Glu	Val	Asp	Leu									
			100												

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<210> 563  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 563  
 Cys Val Asp Phe Asp Glu Tyr Phe Ser Ser Trp Glu Pro Leu Leu Lys  
           1                  5                  10                  15  
 Met Met Phe Lys Gly Val Val Gly Gly Lys Met Lys Ala Trp Arg Arg  
                   20                  25                  30  
 Lys Lys Arg Arg Lys Pro Leu Pro Tyr Lys Ile His Ala Asp  
                   35                  40                  45

<210> 564  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 564  
 Met Met Phe Lys Gly Val Val Gly Gly Lys Met Lys Ala Trp Arg Arg  
           1                  5                  10                  15  
 Lys Lys Arg Arg Lys Pro Leu Pro Tyr Lys Ile His Ala Asp  
                   20                  25                  30

<210> 565  
 <211> 162  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 565  
 Xaa Leu Trp Asp Pro Gly Leu Pro Gly Val Cys Arg Cys Gly Ser Ile  
           1                  5                  10                  15  
 Val Leu Lys Ser Ala Phe Ser Val Gly Ile Thr Thr Ser Tyr Pro Glu  
                   20                  25                  30  
 Xaa Arg Leu Pro Ile Ile Phe Asn Lys Val Leu Leu Pro Arg Gly Xaa  
                   35                  40                  45



<211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 569  
 Asn His Asp Val Ala Ser Gly Ser Thr Val Ile Tyr Leu  
 1 5 10

<210> 570  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 570  
 Ile Thr Pro Leu Gly Leu Gly Ala Ala Asp  
 1 5 10

<210> 571  
 <211> 149  
 <212> PRT  
 <213> Homo sapiens

<400> 571  
 Thr Leu Arg Val Leu Gly Lys Val Pro Ala Val Cys Pro Trp Cys Ala  
 1 5 10 15

Leu Trp Arg Lys Ala Gly Met Asp Met Thr Tyr Ser Trp Leu Ser Arg  
 20 25 30

Gly Asp Ser Thr Tyr Thr Phe His Glu Gly Pro Val Leu Ser Thr Ser  
 35 40 45

Trp Arg Pro Gly Asp Ser Ala Leu Ser Tyr Thr Cys Arg Ala Asn Asn  
 50 55 60

Pro Ile Ser Asn Val Ser Ser Cys Pro Ile Pro Asp Gly Pro Phe Tyr  
 65 70 75 80

Ala Asp Pro Asn Tyr Ala Ser Glu Lys Pro Ser Thr Ala Phe Cys Leu  
 85 90 95

Leu Ala Lys Gly Leu Leu Ile Phe Leu Leu Leu Val Ile Leu Ala Met  
 100 105 110

Gly Leu Trp Val Ile Arg Val Gln Lys Arg His Lys Met Pro Arg Met  
 115 120 125

Lys Lys Leu Met Arg Asn Arg Met Lys Leu Arg Lys Glu Ala Lys Pro  
 130 135 140

Gly Ser Ser Pro Ala  
 145

<210> 572  
 <211> 21

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<212> PRT  
 <213> Homo sapiens

<400> 572  
 Ala Val Cys Pro Trp Cys Ala Leu Trp Arg Lys Ala Gly Met Asp Met  
           1                          5                          10                          15

Thr Tyr Ser Trp Leu  
                           20

<210> 573  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 573  
 Pro Gly Asp Ser Ala Leu Ser Tyr Thr Cys Arg Ala Asn Asn Pro Ile  
           1                          5                          10                          15

Ser Asn Val Ser Ser Cys Pro Ile  
                           20

<210> 574  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 574  
 Tyr Ala Ser Glu Lys Pro Ser Thr Ala Phe Cys Leu Leu Ala Lys Gly  
           1                          5                          10                          15

Leu Leu Ile Phe Leu Leu Leu Val  
                           20

<210> 575  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 575  
 Gln Lys Arg His Lys Met Pro Arg Met Lys Lys Leu Met Arg Asn Arg  
           1                          5                          10                          15

Met Lys Leu Arg Lys Glu Ala Lys Pro Gly  
                           20                          25

<210> 576  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 576  
 Leu Ser Tyr Ser Val Leu Leu Ile Leu Pro Leu Phe His Ser Leu Pro

0097327-101001



<400> 582

Leu Asn Arg Lys Val Leu Lys Arg Leu  
20 25

```
<210> 583
<211> 97
<212> PRT
<213> Homo sapiens
```

<400> 583  
Gly Ser Ala Trp Arg Arg Gly Arg Gly Ala Gly Ser Arg Ala Pro Ala  
1 5 10 15

Pro Tyr Arg Ser Trp Leu Pro Arg Met Ala Val Ala Thr Trp Met Trp  
20 25 30 .

Val Tyr Pro Arg Arg Pro Glu Val Lys Val Ser Arg Thr Pro Arg Glu  
35 40 45

Gly Val Ser Ser Ala Gly Thr Gly Arg Arg Arg Leu Gly Leu Gln Arg  
50 55 60

Ile Thr Gly Arg Cys Arg Ala Thr Pro Ala Ser Ser Ser Arg Ser Leu  
65 70 75 80

Lys Arg Ser Arg Ser Cys Trp Pro Leu Lys Arg Pro Cys Arg Ser Cys  
85 90 95

Arg

```
<210> 584
<211> 21
<212> PRT
<213> Homo sapiens
```

<400> 584  
Trp Leu Pro Arg Met Ala Val Ala Thr Trp Met Trp Val Tyr Pro Arg  
1 5 10 15

Arg Pro Glu Val Lys  
20

```
<210> 585
<211> 23
<212> PRT
<213> Homo sapiens
```

<400> 585  
Cys Arg Ala Thr Pro Ala Ser Ser Ser Arg Ser Leu Lys Arg Ser Arg  
1 5 10 15

Ser Cys Trp Pro Leu Lys Arg

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```
<210> 586
<211> 347
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (243)
<223> Xaa equals any of the naturally occurring L-amino acids
```



231

Gly Ala Gly Glu Pro Leu Ser Gly Pro Gly Gln Ile Pro Pro Trp Leu  
1 5 10 15

Arg Ala Trp Gly Thr Ser Leu Asp  
20

<210> 590

<211> 30

<212> PRT

<213> Homo sapiens

<400> 590

Leu Gly Ala Gly Arg Gly Pro Asp Ser Gly Gly Val Asp Arg Ala Lys  
1 5 10 15

Gly Pro Pro Pro Lys Ala Gln Arg Arg Glu Met Gln Gly Arg  
20 25 30

<210> 591

<211> 23

<212> PRT

<213> Homo sapiens

<400> 591

Gln Ala Arg Ser Leu His Val Ala Ser Gly Leu Trp Lys Ala Val His  
1 5 10 15

Ser Pro Asp Pro Asp Leu Arg  
20

<210> 592

<211> 20

<212> PRT

<213> Homo sapiens

<400> 592

His Pro Ser Gln Gly Arg Arg Ala Leu Gly Pro Gln Gln Ala Arg Glu  
1 5 10 15

Ser Ser Gly Leu  
20

<210> 593

<211> 27

<212> PRT

<213> Homo sapiens

<400> 593

Ile Gly Gly Trp Val Arg Arg Gly Val Gly Ala Leu Ala Gly Thr Arg  
1 5 10 15

Ala Ser Pro Arg Gly Pro Gly Arg Arg Ser Pro  
20 25

0097327-101001

<210> 594  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 594  
 Glu Pro Pro Gly Glu Val Phe Asp Pro His Ile Leu Glu Leu Glu Gln  
           1                  5                  10                  15  
 Val Leu Gln Ala Pro Tyr Leu His Leu  
                   20                  25

<210> 595  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 595  
 Val Pro Ala Glu Leu Thr Pro Ser Leu Gly Val Arg Asp Thr Phe Thr  
           1                  5                  10                  15  
 Ser Gly Leu Leu Gly Tyr Thr His Ile His Val Ala  
                   20                  25

<210> 596  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 596  
 His Thr Leu Phe Ile Ser Phe Leu Trp Ala Glu Gly  
           1                  5                  10

<210> 597  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 597  
 Met Leu Pro Val Phe Val Leu Phe Phe Cys Phe Thr Tyr Ser Ala Arg  
           1                  5                  10                  15  
 Lys Gln Ser Val Phe Lys Lys Gly Asn Val Phe Glu  
                   20                  25

<210> 598  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

09333-10100

&lt;400&gt; 598

Ser Pro Cys Ser Ala Ala Glu Cys His Asn Leu Ser Leu Leu Ser Ser  
 1 5 10 15

Cys Ser Leu Val Ser Ser Asn Ile Leu Phe Ser Phe Pro Phe Phe Gly  
 20 25 30

Gln Lys Ala Arg Cys Cys Leu Phe Leu Phe Tyr Phe Ser Ala Ser His  
 35 40 45

Ile Ala His Glu Ser Arg Val Tyr Ser Lys Lys Glu Met Cys Leu  
 50 55 60

&lt;210&gt; 599

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 599

Ala Phe Phe Leu Leu Gln Ala Leu Glu Ile Gln Ser Gln Leu Ala Thr  
 1 5 10 15

Pro Ala Ser Ser Thr Ala Arg Asn Pro Ala Pro Asp Leu His His Pro  
 20 25 30

His Gln Pro Thr Ile Glu Arg Phe Cys Arg His Ser Ser Ser Trp Glu  
 35 40 45

Arg Ile Glu Tyr  
 50

&lt;210&gt; 600

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 600

Met Arg Thr Leu Phe Gly Ala Val Arg Ala Pro Phe Ser Ser Leu Thr  
 1 5 10 15

Leu Leu Leu Ile Thr Pro Ser Pro Ser Pro Leu  
 20 25

&lt;210&gt; 601

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 601

Met Ala Tyr Ala Phe His Arg Thr Ser Thr  
 1 5 10

&lt;210&gt; 602

T00T:022260



```
<210> 606
<211> 72
<212> PRT
<213> Homo sapiens
```

```

<400> 606
Ser Thr His Leu Gly Leu Pro Arg Cys Trp Asp Tyr Arg His Glu Pro
 1              5              10              15
Leu Cys Leu Ala Pro Phe Thr Thr Ile Ser Ile Ile Ile Met Gln Gly
      20              25              30
Leu Ser Asn Leu Ser Met Pro Gln Asn Pro Pro Glu Gly Cys Ala His
      35              40              45
Arg Leu Leu Asp Leu Ser Pro Ala Ser Asp Ser Val Pro Pro Glu Trp
 50              55              60
Gly Ser Lys Ile Ala Phe Glu Val
 65              70

```

```
<210> 607
<211> 26
<212> PRT
<213> Homo sapiens
```

```

<400> 607
Leu Arg Val Gly Gly Thr Ser Glu Asn Cys Cys Arg Gly Glu Cys Cys
  1             5             10             15
Gly Ser Val Cys Ile Pro Pro Gly Arg Leu
          20             25

```

```
<210> 608
<211> 14
<212> PRT
<213> Homo sapiens
```

```
<400> 608
Ser Asn Ser His Thr His Thr His Val Lys Ser Phe Leu Arg
  1             5             10
```

```
<210> 609
<211> 15
<212> PRT
<213> Homo sapiens
```

<400> 609  
Gln Pro Tyr Gln Val Leu Pro Ser Arg Gln Val Phe Ala Leu Ile  
1 5 10 15

<210> 610  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 610  
 Val Phe Ser Cys Ile Tyr Gly Glu Gly Tyr Ser Asn Ala His Glu Ser  
   1                  5                  10                  15  
 Lys Gln Met Tyr Cys Val Phe Asn  
                   20

<210> 611  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 611  
 Arg Asn Glu Asp Ala Cys Arg Tyr Gly Ser Ala Ile Gly Val Leu Ala  
   1                  5                  10                  15  
 Phe Leu

<210> 612  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 612  
 Leu Val Val Asp Ala Tyr Phe Pro Gln Ile Ser Asn Ala Thr Asp Arg  
   1                  5                  10                  15  
 Lys

<210> 613  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 613  
 Ser Ala Leu Trp Thr Phe Leu Trp Phe Val Gly Phe Cys Phe Leu Thr  
   1                  5                  10                  15  
 Asn Gln Trp Ala Val Thr Asn Pro Lys  
                   20                  25

<210> 614  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens



&lt;400&gt; 614

Thr Ala Thr Leu Asn Ser Phe Phe Gly Gly Trp Gly Leu Ala Leu Leu  
 1 5 10 15

Leu Arg Leu Glu Cys Ser Asp Thr Ile Met Asp His Cys Ser Leu Asp  
 20 25 30

Leu Leu Gly Ser Ser Asn Pro Pro Ala Ser Ala Ser Gln Val Val Gly  
 35 40 45

Thr Thr Gly Ala Arg His His Ala Gln Leu Ile Phe Cys Phe Phe Val  
 50 55 60

Gln Thr Arg Ser His Ser Val Ala  
 65 70

&lt;210&gt; 615

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 615

Met Asp His Cys Ser Leu Asp Leu Leu Gly Ser Ser Asn Pro Pro Ala  
 1 5 10 15

Ser Ala Ser Gln Val Val Gly Thr Thr Gly Ala Arg His His Ala Gln  
 20 25 30

Leu Ile Phe Cys Phe Phe Val Gln Thr Arg Ser His Ser Val Ala  
 35 40 45

&lt;210&gt; 616

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 616

Gly Val Leu Lys Gln Ser Ser His Leu Val Leu Ser Lys Gly  
 1 5 10

&lt;210&gt; 617

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 617

Asp Tyr Ser Cys Glu Ser Leu Cys Pro Ala Leu Leu Ser Ile Ala Pro  
 1 5 10 15

Asp Ile Val Leu Asn  
 20

1097333-101001  
 T00707-040600



```
<210> 625
<211> 74
<212> PRT
```



[illegible]

```
<210> 628
<211> 28
<212> PRT
<213> Homo sapiens
```

```
<210> 629
<211> 60
<212> PRT
<213> Homo sapiens
```

```
<210> 630
<211> 61
<212> PRT
<213> Homo sapiens
```

<400> 630  
Ile Gln Gly Ser Arg Leu Pro Pro Leu Pro Ala Pro Leu His Pro Leu  
1 5 10 15  
Pro Leu Ile Tyr Leu Leu Leu Gly Ser Pro Ala Gln Ser Trp Leu Leu  
20 25 30  
Val Pro Ser Trp Gly His Pro Ser Thr Leu Thr Leu Thr Met Ala Ala

242

Glu His Gln Ala Trp Pro Ser Gly Phe His Gly Asp His  
50 55 60

009228-101001  
T00101-8222650

243

Arg Pro Thr Arg Pro Ile Thr Phe Ser Ser Asn Ile Ser Glu Trp Val  
1 5 10 15  
Pro Ser Thr Gly Phe Gln Asp Leu Glu His Phe Asn Arg Arg Lys Cys  
20 25 30  
Arg Ser Ser Leu His Ser Cys Phe Thr Asp Phe Gln Glu Ala Asp Ser  
35 40 45  
Gly Phe Lys Met Glu Pro Trp Ser Trp Phe Phe Phe Phe Phe Phe  
50 55 60  
Phe Pro Gln Arg Thr Cys Gly Cys Ala Leu Cys Val Leu Phe Leu Phe  
65 70 75 80  
Ser Ile Trp Gly Pro His Gly Lys Glu Leu Leu Asn Ser Phe Leu Tyr  
85 90 95  
Glu Leu Pro Leu Cys Ser Tyr Lys Gly Pro Phe Leu Ser  
100 105

<210> 635  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 635  
Thr Lys Thr Ser Thr Pro Leu Arg  
1 5

<210> 636  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 636  
Ala Ser Phe Gly Ser Cys Ser Leu Ser Leu Pro Cys Ser Ala Arg Glu  
1 5 10 15

Arg Thr Pro Glu Gly Gly Gly Trp Pro Gly Gly Arg Leu Ser Glu Pro  
20 25 30

Leu Pro Ala  
35

<210> 637  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 637  
Ala Pro Asn Val Val Leu Val  
1 5

<400> 638  
Asp Gly Arg Leu Thr Phe  
1 5

<400> 639  
Pro Gly Ser Gln Val Val Lys Leu Pro Phe Ile Asn Phe Met  
1 5 10

```
<400> 640
Phe Leu Asn Ala Tyr Thr Asn Ser Pro
  1                      5
```

```

<400> 641
Ile Cys Cys Pro Ser Arg Ala Ala Met Trp Ser Gly Leu Phe Thr His
  1             5             10             15

```

Thr Trp Met Asp  
35

```
<400> 642
Thr Gln Lys Phe Gly Lys
  1             5
```



```
<400> 643
Asp Tyr Thr Ser Gly His His Ser Ile
  1             5
```

```
<400> 644
Ser Asn Arg Val Glu Ala Trp Thr Arg Asp Val Ala Phe Leu Leu Arg
  1             5             10             15
Gln Glu Gly Arg Pro
      20
```

<400> 645  
Asp Trp Gln Asn Thr Asp Lys Ala  
1 5

<400> 646  
Tyr Leu Gly Leu Asn Leu Pro His Pro Tyr Pro Ser Pro Ser Ser Gly  
1 5 10 15  
Glu Asn Phe Gly Ser Ser Thr Phe His Thr Ser Leu Tyr Trp Leu Glu  
20 25 30

Lys Val

<400> 647  
Asp Ala Ile Lys Ile Pro Lys Trp

1

5

&lt;210&gt; 648

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 648

Tyr Thr Lys Asn Cys Thr Gly

1

5

&lt;210&gt; 649

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 649

Asn Ile Arg Ala Phe Tyr Tyr Ala Met Cys Ala Glu Thr Asp Ala Met

1

5

10

15

Leu Gly Glu Ile Ile Leu Ala Leu His

20

25

&lt;210&gt; 650

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 650

Leu Asp Leu Leu Gln Lys Thr Ile Val Ile Tyr

1

5

10

&lt;210&gt; 651

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 651

Met Glu His Arg Gln Phe Tyr Lys Met Ser Met Tyr Glu Ala Ser

1

5

10

15

&lt;210&gt; 652

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 652

His Val Pro Leu Leu Met Met Gly Pro Gly Ile Lys Ala

1

5

10

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Ala Val

<210> 657  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 657  
 Phe Pro Glu Ile Thr Tyr Ser Leu Asp Gln Lys Leu  
     1                    5                    10

<210> 658  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 658  
 Asn Tyr Pro Lys Val Ser Ala Ser Val His Gln Tyr Asn Lys Glu Gln  
     1                    5                    10                    15

Phe Ile

<210> 659  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 659  
 Gly Gln Asn Tyr Ser Asn Val Ile Ala  
     1                    5

<210> 660  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 660  
 Arg Trp His Gln Asp Trp Gln  
     1                    5

<210> 661  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 661  
 Pro Arg Lys Tyr Glu Asn Ala Ile  
     1                    5

<210> 662

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**Figure 6.** The effect of the number of iterations on the accuracy of the proposed algorithm. The results are shown for different values of  $\alpha$  and  $\beta$ . The x-axis represents the number of iterations (from 0 to 100), and the y-axis represents the accuracy (from 0.8 to 1.0). The legend indicates four cases:  $(\alpha=0.9, \beta=0.9)$ ,  $(\alpha=0.9, \beta=0.7)$ ,  $(\alpha=0.7, \beta=0.9)$ , and  $(\alpha=0.7, \beta=0.7)$ .

Gly

<400> 665  
Cys Pro Glu Ser Trp Ile Gly Phe Gln Arg Lys Cys  
1 5 10

<400> 666  
Asn Phe Leu Leu Arg Tyr Lys Gly Pro Ser Asp His Trp Ile Gly Leu  
1 5 10 15

<400> 667  
Ala Ser His Leu Arg Leu Leu Ser Ser Trp Asp Tyr Arg Phe Pro Ile  
1 5 10 15

Ala Arg His Tyr Thr Glu Arg Lys Trp Ile Cys Ser Lys Ser Asp Ile  
35 40 45

```
<210> 668
<211> 76
<212> PRT
<213> Homo sapiens
```

<220>  
<221> SITE  
<222> (9)

**<220>**

<222> (22)

<220>

<222> (29)

<400> 668

<210> 669

<211> 39

&lt;212&gt; PRT

<213> Homo sapiens

<400> 669

<210> 670

<211> 19

<212> PRT

<213> Homo sapiens

<400> 670

Glu Ile Ile

<210> 671  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 671  
 Glu Gln Leu Glu Glu Leu Glu Leu Lys Lys Lys Asp Phe Ile Lys Ile  
   1                  5                  10                  15  
 Leu Glu Ser Val Gln Gly Asn Trp Arg Gln Asn Glu Asp Ser Gly Lys  
                   20                  25                  30  
 Gly Pro Gln Arg Ser Cys Leu His Ser Lys Glu His Ser Ile Lys Ala  
           35                  40                  45  
 Thr Leu Ile Trp Arg Leu Phe Phe Leu Ile  
       50                  55

<210> 672  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 672  
 Glu Asn Phe Leu Leu Arg Tyr Lys Gly Pro Ser Asp His Trp Ile Gly  
   1                  5                  10                  15  
 Leu Xaa Xaa Glu Gln Gly Gln Pro Trp Lys Trp Ile Asn Gly Thr Glu  
                   20                  25                  30  
 Trp Thr Arg Gln  
       35

<210> 673  
 <211> 776  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (709)..(709)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (738)..(738)  
 <223> n equals a,t,g, or c



```

<400> 673
tacaacgctg tgactgggaa aaccctggcg ttacccaact taatcgccct gcagcacatc 60
cccccttcgc cagctggcgt aatagcgaag aggcccgcac cgatcgccct tcccaacagt 120
tgcgagcct gaatggcgaa tggcgctga tgcggtatct tctccttacg catctgtgcg 180
gtatttcaca ccgcataatg tgcactctca gtacaatctg ctctgatgcc gcatagttaa 240
gccagccccg acaccgcca acaccgctg acgcgccctg acgggcttga ctgctcccg 300
catccgctta cagacaagct gtgaccgtct ccgggagctg catgtgtcag aggttttcac 360
cgtcatcacc gaaacgcgcg agacgaaagg gcctcgtgat acgcctatct ttatagggtta 420
atgtcatgat aataatggtt tcttagacgt caggtggcac ttttcgggga aatgtgcgcg 480
gaaccctat ttgtttatct ttctaaatac attcaaatac gtatccgctc atgagacaat 540
aaccctgata aatgcttcaa taatattgcc aaagggaagag tatgagtatt caacatttcc 600
gtgtcgccct tattcccttt attgcggcat tgagcctgtc tgtttttgct caccagaaaa 660
cgctggtgaa agtaaaagat gctgaagatc agttgggtgc acgagtggng tacatcgaac 720
tgatctcaa cagcggttag atcctcgaga ggtttcgccc ccgaagaacg tttttc 776

```

```

<210> 674
<211> 878
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (741)..(741)
<223> n equals a,t,g, or c

```

```

<400> 674
gaaaaccctg gcgttaccca acttaatcgc cttgcagcac atcccccttt cgccagctgg 60
cgtaatatcg aagaggcccc caccgatcgc ccttcccaac agttgcgcag cctgaatggc 120
gaatggcgcc tgatgcggta ttttctcctt acgcactctgt gcggtatttc acaccgcata 180
tggtgcactc tcagtacaaat ctgctctgat gccgcatagt taagccagcc ccgacaccgg 240
ccaacaccgg ctgacgcgcc ctgacgggct tgtctgtctc cggcatccgc ttacagacaa 300
gctgtgaccg tctccgggag ctgcatgtgt cagaggtttt caccgtcatc accgaaacgc 360
gcgagacgaa agggcctcgt gatacgccca tttttatagg ttaatgtcat gataataatg 420
gtttcttaga cgtcaggtgg cacttttcgg ggaaatgtgc gcggaacccc tatttgttta 480
tttttctaaa tacattcaaa tatgtatccg ctcatgagac aataaccctg ataaatgctt 540
caataatatt gaaaaaggaa gagtatgagt attcaacatt tccgtgtcgc cttatttccc 600
ttttttgcgg cattttgcct tctgtttttt gctcaccag aaaacgctgt gaaaagtaaa 660
gatgctgaag atcagttggg tgacagagtg ggttacatcg aactggatct caacagcggg 720
aaaaaccttg agagttttcg nccccgagaa cgtttttcaa tgatgagcac ttttaaagtt 780
ctgctatgtg gcgcggtatt aatccctatt tacgccccgg cagaagcact cggtcgcccc 840
atacactatt ctagaatgac ttggttgagt actaacca 878

```

```

<210> 675
<211> 150
<212> DNA
<213> Homo sapiens

```

```

<400> 675
cgtcgtgact gggaaaaccc tggcgttacc caacttaatc gccttgagc acatccccct 60
ttcgccagct ggcgtaatag cgaagaggcc cgcaccgatc gcccttccca acagttgcgc 120
agcctgaatg gcgaatggcg cctgatgcgg 150

```

```

<210> 676
<211> 845
<212> DNA
<213> Homo sapiens

```

```

<400> 676
cccgctgctt tacaacgctg agactgggaa aaccctggcg ttacccaact taatcgccct 60
gcagcacatc cccctttcgc cagctggcgt aatagcgaag aggcccgcac cgatcgccct 120

```

tcccaacagt	tgcgcagcct	gaatggcgaa	tggcgccctga	tgcgggtat	tctccttacg	180
catctgtgcg	ggatttcaca	ccgcataatg	tgcactctca	gtacaatctg	ctctgatgcc	240
gcatagttaa	gccagccccg	acaccgcgca	acaccgcctg	acgcgccctg	acgggcttgt	300
ctgctcccgg	catccgctta	cagacaagct	gtgaccgtct	ccgggagctg	catgtgtcag	360
aggtttttcac	cgtcatcacc	gaaacgcgcg	agacgaaagg	gcctcgtgat	acgcctat	420
ttatagggtta	atgtcatgat	aataatgggt	tcttagacgt	caggtggcac	ttttcgggga	480
aatgtgcgcg	gaacccttat	ttgtttat	ttctaaatac	attcaaata	gtatccgctc	540
atgagacaat	aaccctgata	aatgcttcaa	taataattgaa	aaaggaagag	tatgagtatt	600
caacattttcc	gtgtcgccct	tattcccttt	tttgccgcat	tttgccttcc	tgtttttget	660
cacccagaaa	cgctggtgaa	agtaaaagat	gctgaagatc	agttgggtgc	acgagtgggt	720
tacatcgaa	tggatctcaa	cagcggtaag	atccttgaga	gttttcgccc	cgaagaacgt	780
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gccgg						845

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741

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<211> 741

<212> DNA

<213> Homo sapiens

<400> 714

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<211> 271

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<213> Homo sapiens

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<211> 254

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 254

<212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 718

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&lt;210&gt; 719

&lt;211&gt; 254

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 719

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&lt;210&gt; 720

&lt;211&gt; 271

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 720

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&lt;210&gt; 721

&lt;211&gt; 6838

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 721

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<213> Homo sapiens

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&lt;212&gt; DNA

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 734

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&lt;211&gt; 737

&lt;212&gt; DNA

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 759

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&lt;211&gt; 782

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 760

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<212> DNA

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<211> 1608

<212> DNA

<213> Homo sapiens



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<211> 1603

<212> DNA

<213> Homo sapiens

<400> 768

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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<211> 2165

<212> DNA

<213> Homo sapiens

<400> 772

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<211> 485

<212> DNA

<213> Homo sapiens

<400> 773

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&lt;211&gt; 2044

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 818

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&lt;211&gt; 7348

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 819

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<211> 146

<212> DNA

<213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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<211> 146

<212> DNA

<213> Homo sapiens

<400> 846

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<210> 847

<211> 972

<212> DNA

<213> Homo sapiens

<400> 847

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<211> 976

<212> DNA

<213> Homo sapiens

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<211> 976  
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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 gatttgaaaa tgaccattgc agtactcata gaaga 695

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 <212> DNA  
 <213> Homo sapiens

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 gatttgaaaa tgaccattgc agtactcata gaaga 695

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 <212> DNA  
 <213> Homo sapiens

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<210> 854  
 <211> 575  
 <212> DNA  
 <213> Homo sapiens

<400> 854  
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<212> DNA  
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396

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&lt;213&gt; Homo sapiens

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&lt;211&gt; 288

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 870

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&lt;210&gt; 871

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 871

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&lt;210&gt; 872

&lt;211&gt; 2034

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 872

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<211> 2787

<212> DNA

<213> Homo sapiens

<400> 873

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&lt;211&gt; 302

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 874

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&lt;210&gt; 875

&lt;211&gt; 962

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 875

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&lt;211&gt; 232

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 876

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<211> 319

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 585

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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&lt;213&gt; Homo sapiens

&lt;400&gt; 885

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&lt;213&gt; Homo sapiens

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<211> 559

<212> DNA

<213> Homo sapiens

<400> 896

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 <223> n equals a,t,g, or c

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<213> Homo sapiens

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<211> 8259

<212> DNA

<213> Homo sapiens

<400> 900

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428

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<213> Homo sapiens

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<212> DNA

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 922

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;211&gt; 2631

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 926

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&lt;213&gt; Homo sapiens

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